indexed by

County Borough



of Blackburn.



ANNUAL REPORT

UPON THE

Health of Blackburn

For the Year 1936.

BY

V. T. THIERENS, M.B., Ch.B. (L'pool), D.P.H. (Cambridge),

MEDICAL OFFICER OF HEALTH,

ADMINISTRATIVE TUBERCULOSIS OFFICER,

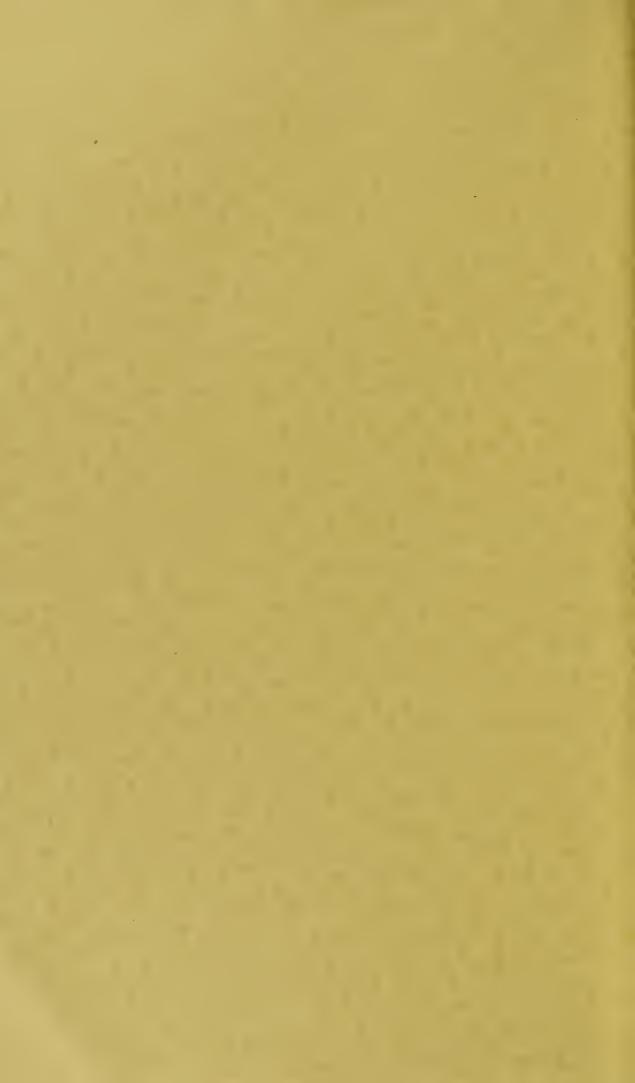
MEDICAL SUPERINTENDENT OF THE CORPORATION ISOLATION HOSPITALS

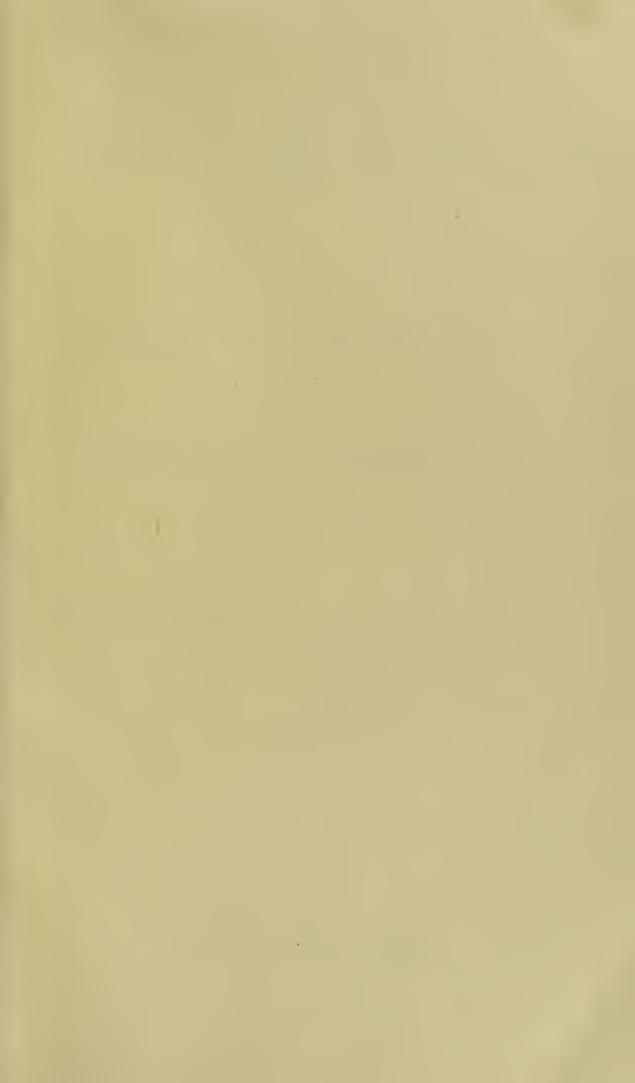
AND MUNICIPAL MATERNITY HOME,

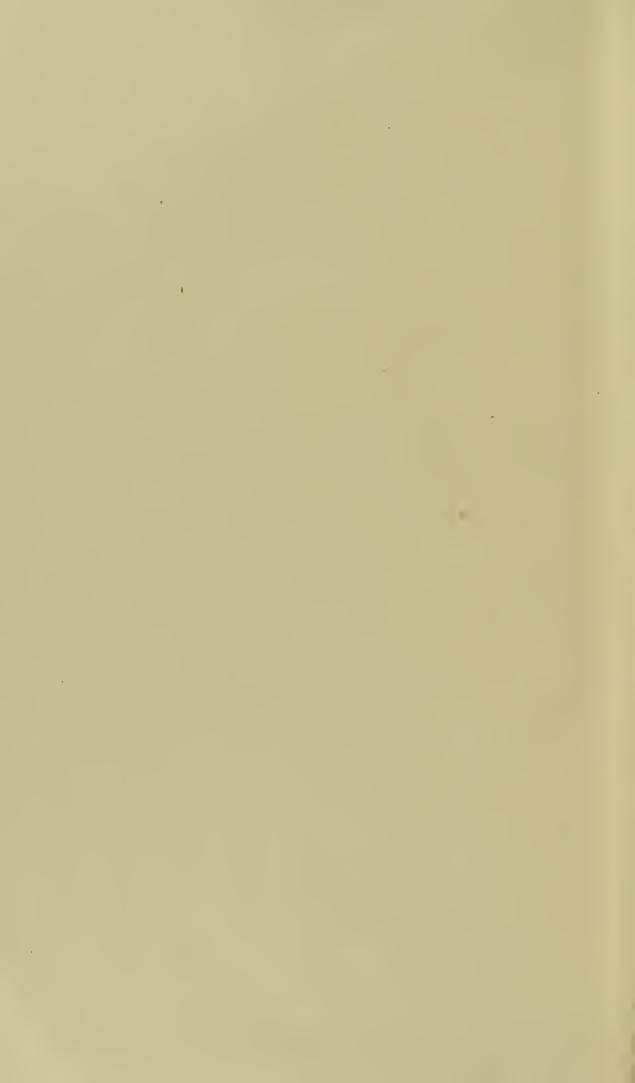
SCHOOL MEDICAL OFFICER.

21 JULI 1937

BLACKBURN
THOMAS BRIGGS (BLACKBURN) LTD., 73 NORTHGATE.









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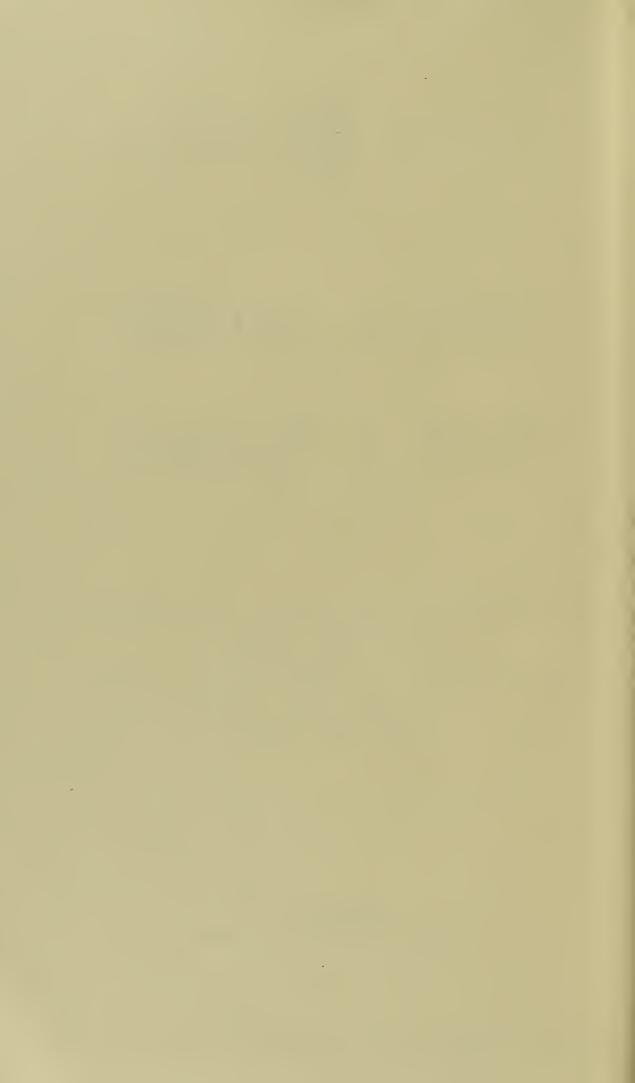
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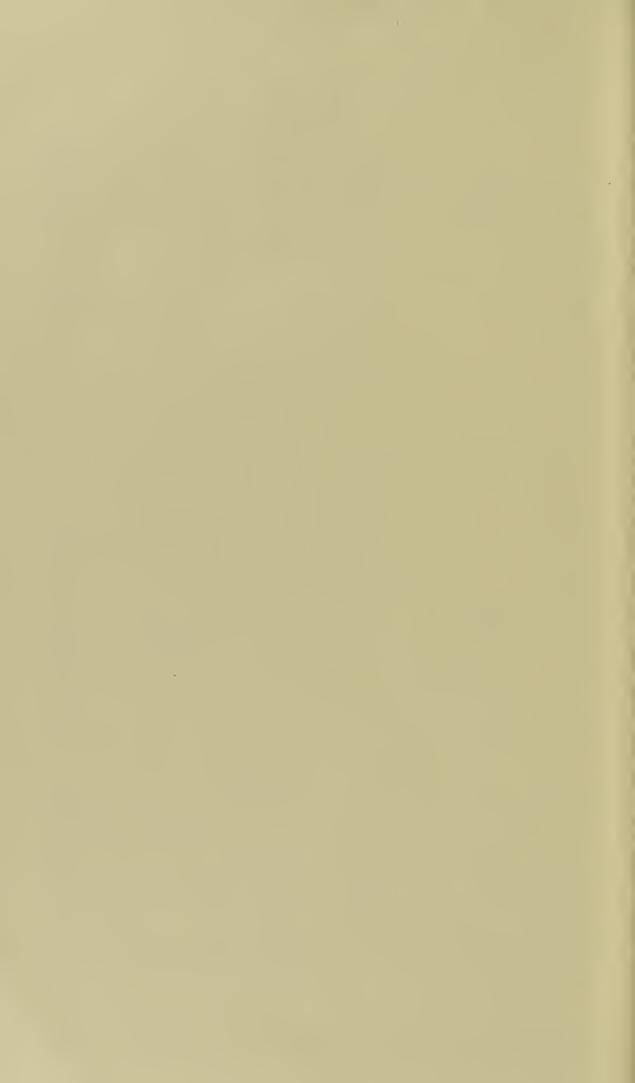
BLACKBURN.
THOMAS BRIGGS (BLACKBURN) LTD., 73 NORTHGATE.



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Health Committee.

THE MAYOR (Mr. COUNCILLOR W. HAMMOND, J.P.).
ALDERMAN F. J. GREEVES, J.P., L.R.C.P. CHAIRMAN.

ALDERMEN-

CRITCHLEY, HOLDEN (VICE-CHAIRMAN), AND GRIMSHAW.

COUNCILLORS--

BEARDSWORTH, F.

DAVIES

LEACH

CASWELL

EDDIE

MOTTERSHEAD

WHITEHEAD.

MATERNITY AND CHILD WELFARE COMMITTEE-

THE MAYOR (Mr. Councillor W. HAMMOND, J.P.). ALDERMAN F. J. GREEVES, J.P., L.R.C.P. (CHAIRMAN).

ALDERMEN:

CRITCHLEY, GRIMSHAW AND HOLDEN (VICE-CHAIRMAN).

Councillors—

BEARDSWORTH, F. MOTTERSHEAD

CARMICHAEL

TAYLOR, J. W.

CAMMICHAEL

.....

DAVIES

CASWELL

WHITEHEAD

MESDAMES-

COTTON, HEYES, STEPHENSON & TATTERSALL. Miss. K. HOWARD.

BLIND PERSONS ACT COMMITTEE-

THE MAYOR (Mr. Councillor W. HAMMOND, J.P.).

ALDERMAN B. HOLDEN, J.P. (CHAIRMAN).

ALDERMEN:

CAMPBELL, CRITCHLEY, GREENWOOD (VICE-CHAIRMAN) & GRIMSHAW.

Councillors:

CASWELL, RILEY, ROGERSON, TAYLOR (J. W.), & WHITEHEAD.

MESSRS. L. C. KING-WILKINSON, T. VIPOND, J. A. ORMEROD.

MRS. A. COGGINS. MISS G. M. DEAN.

Public Health Officers of the Local Authority.

Medical Officer of Health-

V. T. THIERENS, M.B., CH.B., D.P.H.

Assistant Medical Officers of Health-

E. D. IRVINE, M.D., M.R.C.S., L.R.C.P., D.P.H. DOROTHEA I. BAIRD, M.B., Ch.B., D.P.H., L.M. JOHN B. TILLEY, M.D., B.S., B.Hy., D.P.H. SHEILA THOMSON, M.B., Ch.B. D.P.H., M.M.S.A. (Commenced 1st June, 1936).

Dental Surgeons-

H. YATES, L.D.S.

A. E. B. NOBLE, L.D.S. (Resigned May, 1936).G. WILLIAMSON, L.D.S. (Resigned October, 1936).

K. T. ADAMSON, L.D.S. (Commenced August, 1936).

Dental Attendants-

MISS M. TOTTY.

MISS G. M. PELLMAN

Miss L. MARSDEN (Resigned November, 1936).

Miss G. BOOTH (Commenced November, 1936).

Part Time Medical Officers-

- W. BRIGGS, M.B., B.S. (Orthopaedie Surgeon).
- R. Y. AITKEN, F.R.C.S. (Puerperal Fever Consultant).
- J. M. WISHART, F.R.C.S.E. (Oculist and Laryngologist).
- W. CRAN DUTHIE, M.B., C.M. (M.O. i/e Male Venereal Diseases Clinic). (Died February, 1936).
- J. A. SELLARS, M.B., B.CH., B.A.O. (Radiologist).
- A. SEBBA, B.A., M.R.C.S., L.R.C.P., (M.O. i/c Male Venereal Diseases Clinie). (Commenced May, 1936).

Pathologists-

Pathological work is earried out by the Pathologists at the Blackburn and East Lancashire Royal Infirmary and the Manchester and Liverpool Public Health Laboratories.

District Medical Officers-

- D. O'DRISCOLL, M.B., CH.B., B.A.O.
- C. M. BRADLEY, L.R.C.P., L.R.C.S.
- H. SOUTHWORTH, M.B., CH.B.
- J. J. JENNINGS, M.B., CH.B., F.R.C.S. (Ed.). ARTHUR LEIGH, M.B., CH.B.

Public Vaccinators-

- D. O'DRISCOLL, M.B., CH.B., B.A.O.
- C. M. BRADLEY, L.R.C.P., L.R.C.S.
- G. A. FLEMING, M.B., CH.B.
- D. KELLEHER, M.B., CH.B., B.A.O.
- J. B. LEIGH, M.B., CH.B.
- H. SOUTHWORTH, M.B., CH.B.

Vaccination Officer--

G. G. DICKINSON.

Public Health Officers of the Local Authority-Continued.

Public Analyst-

W. H. ROBERTS, M.Sc., F.I.C.

Veterinary Inspector and Chief Meat Inspector-

E. J. BURNDRED, M.C., M.R.C.V.S., D.V.H.

- *H. KENYON, Chief District Sanitary Inspector.
- *W. H. GOODMAN, Assistant Meat Inspector.
- *H. W. FOWLER, Special Inspector for Food and Drugs, etc.

District Inspectors-

*J. W. MARGINSON. *W. WALNE. *J. A. SHAW.

*C. AINSWORTH. *W. PARKER. *W. SUMNER (Commenced February, 1936).

Lady Health Visitors-

§†*Miss LOWE. §*Miss STANANOUGHT (Resigned February, 1936). §‡†Miss BELL. §†‡*Miss THOMPSON. †‡§Miss SUDWORTH.

§†‡Miss FRANKS.

*§†‡Miss JONES.

§*†‡Miss EVANS (Commenced July, 1936).

††*§Miss HARRIS (Commenced August, 1936).

Matron, Corporation Hospital-§‡†Miss CR1TCHLEY.

Matron, Springfield Maternity Home-§‡†Miss HUGHES.

Tuberculosis Nurse—§‡†Miss WILLIAMS.

Chief Clerk-THOMAS FOWLER.

Clerks-

§H. WALSH. *J. R. MARSDEN. MISS E. COMBERBACH. MISS C. HAWORTH. §J. MATHER. §H. ROTHWELL. §F. BRIGGS. J. M. BELL.

Disinfectors-

F. HOLDEN. J. SLEVIN.

*Holders of Certificates of the Royal Sanitary Institute. †Certificated Midwives.

!Trained Nurses.

§A contribution to the salaries of these Officers is made from Exchequer grants.

CLINICS.

			
NAME.	PURPOSE.	WHERE HELD.	Times.
Inspection	Special Examination	68, Victoria	Wodnesdays, 2 p.m.
Clinic.	of Cases Referred by	Stroet.	Saturdays, 9-30 a.m.
	Teachers, School Attend-		
	ance Officers and School Nurses.		
Ophthalmic	Prescription of	68, Victoria	Mondays, 1-30 p.m.
Clinic.	Spectacles.	Street.	Fridays, 1-30 p.m.
Dental Clinic.	Dental Treatment.		Every week-day by ap-
76.6° . A 17	m , , , , , , , , , , , , , , , , , , ,	00 77	pointment.
Minor Ailments Clinic.	Treatment of Minor Ailments, Diseases of Skin,	68, Victoria Street.	Every week-day, at 8-45 a.m.
Omite.	etc.	Stieet.	d.111.
	,,	All Saints'	Mondays, Tuesdays, Thurs-
		School, Bolton	
		Road.	Wednesdays and Saturdays, 9-0 a.m.
Cleansing Station	Treatment of Scabies	Throstle	Tuesdays and Thursdays
	and Cleansing of	Street.	(by appointment).
Throat Clinic.	Verminous Cases.	Dloolohm. and	A
Inroat Clinic.	Operative Treatment of Adenoids and Enlarged	East Lancs, R.	Arranged as required.
	Tonsils.	Infirmary.	
,,	**	Queen's Park	Arranged as required.
Remediaı	Treatment of	Hospital. 68, Victoria	Every week-day (by ap
Exercises.	Deformities.	Street.	Every week-day (by ap pointment).
Tuberculosis	Diagnosis and Treat-	Dispensary,	Every week-day (except
Clinic.	ment of Tuberculosis.	Duke Street.	Thursday), at 2 p.m.
Orthopædic	Supervision of	68, Victoria	Tuesday, 7-0 p.m. Third Friday in each month.
Clinic.	Cripples, etc.	Street.	at 4-0 p.m.
Maternity and	Child Welfare.	Bent Street	Monday, 2-0 p.m.
Child Welfare		School. Kendal St.	Manday 20 nm
Centres.	,,	School.	Monday, 2-0 p.m.
	**	Hozier St.	Tuesday, 2-0 p.m.
		School.	m . 1 . 2 0
	**	Cornelian St. Institute.	Tuesday, 2-0 p.m.
	**		Wednesday, 2-0 p.m.
		Bolton Road.	m 1 0 0
	33	Hozier St. School.	Thursday, 2-0 p.m.
	39	Kendal St.	Thursday, 2-0 p.m.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	School.	
	**	Griffin Paro-	Friday, 2-0 p.m.
Ante-Natal Clinic.		chial Hall 68, Victoria	Wednesday, Thursday and
zzaso ztatar Omnio.		Street.	Friday, at 9-0 a.m.
Post-Natal ,,	/77.To \	,,	Tuesday, at 4-0 p.m.
Special Ante-	(V.D.)	"	Tuesday, 10-0 a.m.
Natal Clinic. Strabismus	Correction of Squint in	,,	By special appointment.
Clinic.	infants under school age.		
Venereal Diseases	(V.D.)	Royal Infirmary.	Men: Tuesday, 5-30 p.m. Friday, 6-0 p.m.
Clinics.		innimary.	Women: Monday, 5-30 p.m.
			Thursday, 6 p.m.
Ultra-Violet	Artificial Light	Corporation	Mondays, Tuesdays,
Light Clinic	Treatment.	Hospital. 68, Victoria St.	Thursdays & Fridays, 2 p.m. Every week-day by appoint-
**	"	victoria 36.	mont.
X-Ray Clinic.	X-Ray Examinations		By appointment.
Diphtheria	Provontion of	68, Victoria	Monday, 4—5·30 p.m.
1mmunisation Clinic.	Diphtheria.	Streot.	
Olimbio.			

PUBLIC HEALTH OFFICE,

BLACKBURN,

May, 1937.

MR. CHAIRMAN, LADIES AND GENTLEMEN,

I beg to present the Annual Report upon the Health of Blackburn for 1936, which has been compiled on lines indicated by the Ministry of Health.

I would take this opportunity of thanking all members of the Health Department Staff for the zeal and loyalty which they have, one and all, displayed during the year.

It is once again a privilege to express to the members of the Health Committee my appreciation of the sympathy and interest which they have displayed in the work of this Department.

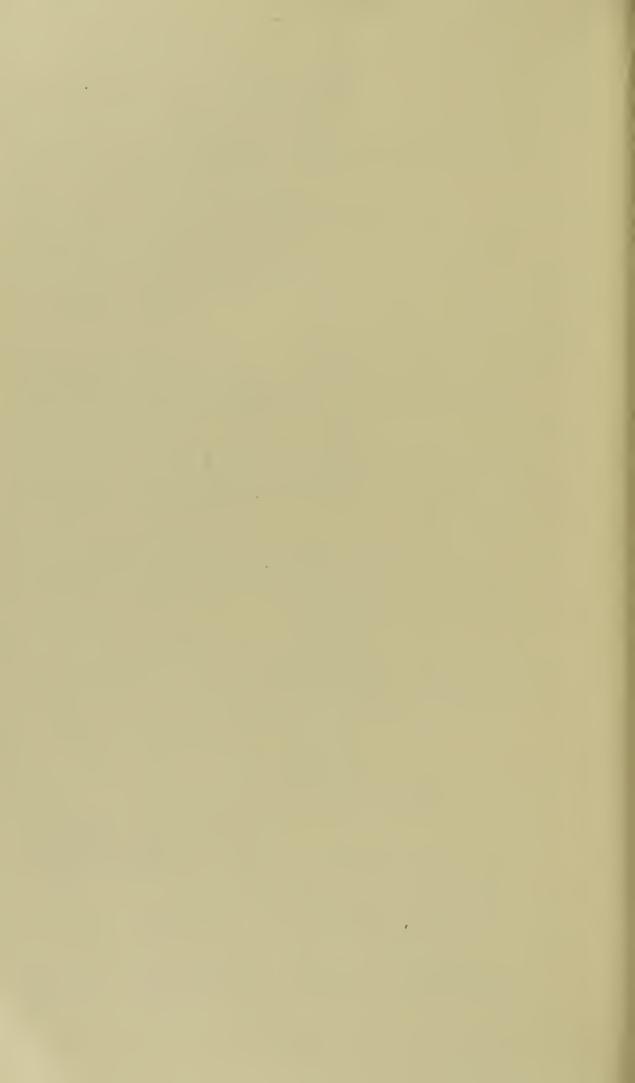
Sympathetic reference should here be made to the lamented death of Dr. W. Cran Duthie, a part-time specialist officer in the Department. His loss will be felt by all with whom he was associated.

I am,

Mr. Chairman, Ladies and Gentlemen,

Your obedient servant,

V. T. THIERENS.



PART I.

Vital Statistics

and

Social Conditions.

TABLE 1.

CENSUS, 1931.

	۱									I		-
		Acres	•	Torai	Total Population.	TION.		PRIVA	PRIVATE FAMILIES AND	LIES ANI	DWELLINGS.	NGS.
sua /M		(Land	1921	-	1931	11				្ត ខ្មា នង		Domografi
WALDS		Inland Water)	Persons	Persons	Males	Females	Persons per Acre	Private Families	Populat ni Private eilimaT	Structurs S epara Dwellin	Rooms Occupied	per Room
BLACKBURN	:	7653	126922	122697	56238	66459	16.0	33815	117746	32696	144055	0.82
РАВК	:	651	9479	9052	4084	4968	13.9	2353	8418	2321	9928	0.85
8T. ANDREW'S	:	1146	10930	10783	4983	5800	9.4	3062	10666	2975	12739	0.84
ST. JOHN'S	:	101	7186	6520	2979	3541	64.6	1835	6310	1790	8001	0.79
Sr. Luke's	:	168	7572	7333	3412	3921	43.6	2023	7222	1962	7917	0.91
ST. MARK'S	:	403	10427	6266	4467	5512	24.8	2752	9807	2703	12506	0.78
ST. MARY'S	:	174	5525	5147	2474	2673	29.6	1295	4564	1138	4882	0.93
ST. MATTHEW'S	:	107	9321	8561	3977	4584	0.08	2341	8328	2323	9584	0.87
ST. MICHAEL'S	:	623	8975	8580	3986	4594	13.8	2541	8511	2472	10691	08.0
ST. PAUL'S	:	123	9771	8929	4014	4915	72.6	2566	8780	2442	10770	0.82
Sr. Peter's	:	133	6119	6213	2932	3281	46.7	1612	5754	1454	6336	0.91
Sr. Silas's	:	985	6006	8016	3911	5197	9.3	2693	8793	5609	14202	0.62
ST. STEPHEN'S	:	1171	11076	13215	6115	7100	11.3	3756	13074	3662	15795	0.83
St. Thomas's	:	1718	12068	11255	5241	6014	$9 \cdot 9$	2746	9793	2692	11925	0.82
TRINITY	:	150	8864	8022	3663	4359	53.5	2240	7726	2153	8779	88.0
•												

TABLE 1—(Continued).

COMPARISONS BETWEEN 1921 AND 1931.

\$	ON. PRIVATE FAMILIES AND DIVELLINGS.	6 13 13 15 15 15 15 15 15 15 15 15 15 15 15 15	Persons Private Private Private Persons Per Acre Families Persons Structure Persons Structure Persons	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	+ 37	-137 - 2.2 + 315 - 15 + 289 + 1277 - 0.23	-379 - 6.5 - 41 - 812 - 40 - 21 - 0.34	-180 - 1.5 + 87 - 330 + 90 + 164 - 0.12	+791	•	-477 -7.1 -16 -873 -11 -32 -0.18	_	_	-188 - 3.8 + 31 - 516 - 43 - 271 - 0.14	30 + 0.1 + 253 - 58 + 192 + 886 - 0	1113 + 1.8 + 1065 +2070 +1027 +3948 -0	-501 - 0.4 + 20 -1126 + 23 + 93 -0.26	-451 -5.6 $+35$ -929 -32 -323 -0.17	
	AND	ਫ਼ਿਲ ਭ	Separati Divellin Occupio		10 +	+ 586 +	- 40 -	+ 06 +	+ 110 +	#!			 		192 +	1027 +	23		
			Private		- 739	- 15	-812	- 330	574	499	873	- 423	1 26 —	-216	82	+2070	-1126	920	
	PRIV		Private Families	+2207	+ 255	+ 315	- 41	+ 87	+ 91	+ 24	_ 16		+ 34	+ 31	+ 253	+1065	+ 50	+ 35	
			Persons per Acre	— 1·1	2.0 —	2.5	<u> </u>	-1.5	- 1:1	9.2	_ 7.1	9.0 —	6.9 —	3.8	+ 0.1	+ 1.8	₹ ·0 —	9.2	
	TION.		Females	-2677	- 284	- 137	- 379	- 180	- 233	- 236	477	290	- 464	- 188	+ 30	+11113	_ 501	— 451	
	POPULATION	1931	Males	-1548	- 143	10	_ 287	69 —	-215	- 142	- 283	- 105	- 378	- 318	69 +	+1026	- 312	_ 391	
	TOTAL	-	Persons		427	147	999 —	- 239	448	378	092 —	- 395	- 842	909 —	66 +	+2139	- 813	- 842	
		1921	Persons	126922	9479	10930	7186	7572	10427	5525	9321	8975	9771	6119	6006	11076	12068	8864	
1		V	Acreage	+ 233	:	+225	:	:	:	:	:	:	÷	;	:	∞ +	;	:	
				:	:	:	:	:	-:	:	:	:	:	:	:	:	-	:	_
				:	:	:	•	:	:	:	:	:	:	:	:	:	:	÷	
		Ç	S		:	:	:	:	:	:	:	:	:	:	:	:	:	:	
		Oxer, W		BLACKBURN	PARK	ST. ANDREW'S	ST. JOHN'S	ST. LUKE'S	ST. MARK'S	ST. MARY'S	ST. MATTHEW'S	ST. MICHAEL'S	ST. PAUL'S	ST. PETER'S	ST. SILAS'S	ST. STEPHEN'S	ST. THOMAS'S	TRINITY	

VITAL STATISTICS.

				19 36
Area (in Acres)				8,080
Population (Census, 1931)	••		•••	122,697
" (Estimated middle of 1936)				116,000
Number of Inhabited Houses (1931)	•••			32,696
Number of Families or Separate Occupier				33,815
Rateable Value	` '			£705,938
Sum Represented by a Penny Rate	•••			£2,711
Rate in the £ (excluding Water) 1935-193	36			12/6†
Gross Expenditure on Health Social Servi	ices .			£53,710
Income on Health Social Services				£16,935‡
Net Expenditure on Health Social Service				£36,775
\dagger Subject to $2rac{1}{2}\%$ discount for early payr		ng a net r	ate of 12/2	
‡ This sum does not include any money	received the	rough the	Block Gran	t.
Live Births {Legitimate 1299 {Illegitimate 62	M. 679	Birt	h ·Rate	11.7
(Illegitimate 62) F. 682)		
Number of women dying in, or in consequ	uence of,	child-bi	rth, from	_
• •			· ·	
Number of women dying in, or in consequence Sepsis 2 Other Causes 7			· ·	
• •			· ·	
Sepsis 2 Other Causes 7	{	1·40 4·91	· ·	1,000 t stillbirths
Sepsis 2 Other Causes 7 Still Births Rate per 1,000 total births	{	1·40 4·91	per ∫ births & 	1,000 x stillbirths 63 44 · 2
Sepsis 2 Other Causes 7 Still Births	{	1·40 4·91	per ∫ births & 	1,000 z stillbirths
Sepsis 2 Other Causes 7 Still Births Rate per 1,000 total births	{ Dea	1·40 4·91 	per ∫ births & 	1,000 x stillbirths 63 44 · 2
	{ Dea	1·40 4·91 	per ∫ births & 	1,000 t stillbirths 63 44 · 2 14 · 3
	{ Dea	1·40 4·91 	per ∫ births & 	1,000 t stillbirths 63 44 · 2 14 · 3
Sepsis	Deaublic inst	1·40 4·91 	per	1,000 x stillbirths 63 44 · 2 14 · 3 55 · 4
Sepsis	{ Deaublic inst	1·40 4·91 ath Rate situtions live bir 	per ∫ births & ths :—	1,000 x stillbirths 63 44 · 2 14 · 3 55 · 4
Sepsis	{ Deaublic inst	1·40 4·91 ath Rate	per	1,000 x stillbirths 63 44 · 2 14 · 3 55 · 4 61 · 6 129 · 0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	{ Deaublic instead	1·40 4·91 ath Rate situtions live bir 	per	1,000 x stillbirths 63 44 · 2 14 · 3 55 · 4 61 · 6 129 · 0 64 · 6
Sepsis 2 Other Causes 7 Still Births Rate per 1,000 total births Deaths \big(\text{M. 795} \) F. 869 \\ \text{F. 869} \end{bmatrix} 1664 Percentage of total deaths occurring in properties of infants under one year of age properties. Legitimate All Infants Deaths rate from Measles (all ages)	{ Deaublic instruction per 1,000	1·40 4·91 ath Rate itutions live bir	per	1,000 x stillbirths 63 44 · 2 14 · 3 55 · 4 61 · 6 129 · 0 64 · 6 0 · 00
Sepsis 2 Other Causes 7 Still Births Rate per 1,000 total births Deaths \bigg\{M. 795\\ F. 869\}\\ 1664\\\ F. 869\}\\ 1664\\\ F. 869\\\ 1664\\\\ 1664\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664\\\\ 1664	Deaublic instruction per 1,000	1·40 4·91 ath Rate itutions live bir	per	1,000 2 stillbirths 63 44 · 2 14 · 3 55 · 4 61 · 6 129 · 0 64 · 6 0 · 00 0 · 04

Births:—The births registered were 1,361, of which 62 were illegitimate. The total male births were 679, and female 682. The birth rate was 11.7 per 1,000, compared with 14.8 for England and Wales, and 14.9 for the 122 great towns.

TABLE 2.

Year.	Birth Rate.	Death Rate.	Natural Increase
1921	19.5	12 · 7	6 · 8
1922	16.8	$14 \cdot 2$	$2 \cdot 6$
1923	16 · 2	13.4	2.8
1924	15.3	14.0	1.3
1925	14 · 9	13 · 9	1.0
1926	14.0	12.9	1.1
1927	13.7	14 · 9	-1.3
1928	13.8	$12 \cdot 2$	1.5
1929	12.4	$14 \cdot 9$	$-2\cdot 5$
1930	12.7	12 · 8	—0 ·08
1931	12.4	12.8	-1.7
1932	12.6	$12 \cdot 6$	0.008
1933	12.0	14 · 4	-2.4
1934	12.0	13 · 1	-1.1
1935	12.0	14.5	-2.5
1936	11.7	14.3	$-2 \cdot 6$

The death rate of Blackburn males was $14 \cdot 9$, and of females $13 \cdot 8$ per 1,000 living of each sex.

Marriages.—There were 1,065 marriages solemnized during the year as follows: Established Churches, 477; other places of worship, 397; Register Office, 191.

TABLE 3.

WARD DEATH RATES IN RELATION TO PERSONS PER ACRE
AND ROOM SPACE.

1931 CENSUS.

Ward			Death Rate.	Persons per Acre.	Rooms per Person.
St. Stephen's	 	. 1	13.2	11 · 2	1.19
Trinity			$13 \cdot 1$	53.4	1.09
St. Michael's	 		16.6	13.7	1 · 24
St. John's	 		14 · 7	64.5	$1\cdot 22$
St. Silas'	 		$12 \cdot 7$	9 · 2	1.55
St. Paul's	 		15.6	72.5	1.20
St. Peter's	 		$17 \cdot 5$	46.7	1.01
St. Mary's	 		$16 \cdot 0$	29 · 5	0.94
St. Matthew's	 		12 8	81 · 0	1.11
St. Thomas's	 		$14 \cdot 1$	6 · 4	1.06
Park	 		$14 \cdot 2$	13.9	1.09
St. Luke's	 		$12 \cdot 1$	43.6	1.08
St. Mark's	 		15.3	24 · 7	$1 \cdot 25$
St. Andrew's	 		14 · 2	9 · 4	1.09

TABLE 4.

DEATH RATES IN WARDS FOR THE PAST SIX YEARS.

Ward.	1931	1932	1933	1934	1935	1936	Av. for 6 Years
St. Stephen's	17.1	12.1	12.0	12 · 1	13.6	13.2	13.3
Trinity	13 · 9	13 · 1	12.8	12.3	13.7	13 · 1	13 · 1
St. Michael's	12 · 1	12.5	13.6	14.6	13.0	16.6	13.7
St. John's	12.0	14.6	17.0	12.7	14.5	14.7	14 · 2
St. Silas's	14.9	13.0	14.5	11.7	14.4	$12 \cdot 7$	$13 \cdot 5$
St. Paul's	14.8	$12 \cdot 7$	16.0	13.7	16.0	15.6	14.8
St. Peter's	15.5	15.3	14 · 4	12.3	16.2	17.5	15.2
St. Mary's	$16 \cdot 6$	$12 \cdot 4$	15.4	17.6	$17 \cdot 7$	16.0	15.9
St. Matthew's	13 · 3	12.6	15.8	14.2	15.5	12.8	14.0
St. Thomas's	12.3	11.9	14 · 1	12.2	14.3	14.1	13 · 1
Park	12.9	12.3	16.1	$12 \cdot 0$	$14 \cdot 3$	$14 \cdot 2$	13.6
St. Luke's	14.6	11.7	14.0	$15 \cdot 3$	15.4	$12 \cdot 1$	13.8
St. Mark's	$12 \cdot 5$	11.2	14.5	$13 \cdot 7$	15.0	$15 \cdot 3$	13.7
St. Andrew's	15.0	12.4	14.0	12.3	12.9	14.2	13 · 4
Borough	14 · 1	12.6	14 · 4	13 · 1	14 · 5	14.3	13.8

TABLE 5.
VITAL STATISTICS DURING 1936.

			_		_		_			_		_	_		_	_	
Death-rate from Yon-Pulmonary Tuberculosis	0.16	00.0	.0.12	0.16	0.00	0.11	0.00	0.00	0.12	0.09	00.0	00.0	0.21	00.0			0.07
Death-rate from Pulmonary Tuberculosis	1.28	0.52	0.24	1.13	0.69	0.71	0.85	0.82	00.0	0.56	0.93	0.43	0.63	0.58			0.68
Death-rate from Bron-chitis & Pneu-monia	1.80	3.55	3.07	3.57	1.85	2.24	4.94	4.31	2.72	2.16	2.95	2.73	2.54	2.35			2.75
Death- rato from Diar- rhœa	80.0	0.00	0.00	0.35	0.00	0.11	0.00	0.00	0.00	0.00	0.00	00.0	00.0	00.0			0.03
Death-rate from six Zymotic Diseases excluding	80.0	0.00	00.0	00.0	00.0	0.35	00.0	0.41	0.00	0.00	0.00	0.00	0.10	60.0			90.0
Deaths under one year per 1000 Births	52	22	95	74	39	95	75	157	37	53	74	52	39	59			64
Death. Rate	13.2	13.1	9.91	14.7	12.7	15.6	17.5	16.0	12.8	14.1	14.9	12.1	15.3	14.2			14.3
Birth- Rate	13.6	12.0	10.7	13.1	5.9	13.6	13.6	14.3	10.0	10.5	12.6	13.8	10.7	11.4			11.7
Deaths	165	100	135	91	110	132	103	78	104	150	122	84	145	145			1664
Births	171	91	87	81	51	115	80	20	81	112	108	96	101	117			1361
Popula- tion	12493	7587	8120	6160	8607	8445	5870	4872	8085	10637	8561	6936	9430	10197			116000
	:	:	:	:	:	:	:	:	:	:	:	:	:	÷			:
	:	:	:	:	:	:	:	:	:	:	:	÷	:	:			:
DS	:	:	:	:	:	:	:	:	s	:	:	:	:	:			:
Wards	EN,8	:	EL's	.:	: :	::	8	g:	IEW,	8,81	:	Ø	80	EW'8			дон
	герн	TY	ICHA	NHC	SILAS's	PAUL'S	ETER	ARY	ATTE	HOM	:	UKE,	ARE	NDR			Вокотан
	St. Stephen's	TRINITY	ST. MICHAEL'S	ST. JOHN'S	ST. SI	Sr. P.	ST. PETER'8	ST. MARY'S	ST. MATTHEW'S.	Sr. THOMAS'S	PARK	ST. LUKE'S	ST. MARK'8	ST. ANDREW'S			B
	20	T	20	20	20	00	20	20	20	20	Ц	S	S	02			

TABLE 6.

				θ.		6.	6.	61	6.	œ.		9.	4	-	тĊ	က
	G TO		At all Ages.	Rate.	13	12.9	14.9	12.2	14.9	12.8	14.1	12.6	14.4	13.1	14.5	14.3
ARS.	EATHS BELONGIN THE DISTRICT.		At all	Number	12	1616	1864	1535	1871	1605	1755	1542	1759	1581	1725	1664
OUS YEARS.	NETT DEATHS BELONGING TO THE DISTRICT.		ear of Age.	Rate per 1,000 Nett	11	89.5	0.77	80.3	80.4	83.3	61.0	2.99	71.3	56.9	63.4	64.6
D PREVIOUS	NET		Under 1 Year of Age	Number	10	156	131	139	125	133	94	103	104	82	06	88
WHOLE DISTRICT DURING 1936 AND	TRANSFERABLE DEATHS.	.	of Residents not	registered in the District.	6	61	63	52	74	39	59	57	52	50	52	62
DURING	TRANSF DEA		of Non- residents	registered in the District.	∞	240	327	275	305	345	349	379	326	312	389	359
TRICT	EATHS	STRICT.		Rate	1-	14.4	17.0	14.0	16.7	15.2	16.5	15.2	16.7	15.3	17.4	16.9
OLE DIS	TOTAL DEATHS REGISTERED IN	THE DISTRICT.		Number	9	1795	2128	1758	2102	1911	2045	1864	2033	1843	2062	1961
			tt.	Rate	ž	14.0	13.7	13.6	12.4	12.7	12.4	12.6	12.0	12.0	12.0	11.7
ISTICS	Births.	2	Nett. 	Number	771	1743	1702	1730	1554	1595	1539	1543	1457	1441	1419	1361
VITAL STATISTICS OF		;	Un- corrected	Number	က	1802	1764	1803	1637	1683	1690	1659	1575	1536	1528	1467
VITA		Population	ල ම	of each Year.	61	124400	124500	125100	125300	125300	123900	122200	121400	119880	118200	116000
			YEAR.		1	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936

TABLE 7.

DEATHS REGISTERED DURING THE CALENDAR YEAR 1936 CLASSIFIED BY AGE AND CAUSE.

Nett Deaths at the subjoined ages of "Residents."	nstitutions in the District.
All Causes Cortified 1663 88 10 13 27 42 66 87 185 321 824 923	ions in
Cortified	Sti
Cortified	4:5
All Causes Cortified 1663 88 10 13 27 42 66 87 185 321 824 923	iti.
All Causes { Cortified Uncertified 1663 88 10 13 27 42 66 87 185 321 824 923	Ins
Enteric Fever 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Enteric Fever 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Enteric Fever	
Small Pox	
Moasles	
Scarlet Fever	
Diphtheria and Croup 2 1 1	
Influenza 12	
Erysipelas	
Tetanus <	
Tuberculous Meningitis	
Other Tuborculous Diseases 9 1 1 1 1 1 2 2 7 Cancer, Malignant Disease 199	
Cancer, Malignant Disease 199 2 7 33 60 97 122 Acute Rheumatism and Rheumatic Fever 6 2 1 1 2 1 1 2 1 Cerebro-Spinal Meningitis 5 1 1 2 1 4 4 Other Forms of Moningitis (not T.B.) 7 1 2 3 1 1 2 1 4	
Fever 6 2 1 2 1 Cerebro-Spinal Meningitis 1 1 2 1 Encephalitis Lethargica 5 1 1 2 1 4 Other Forms of Moningitis (not T.B.) 7 1 2 3 1 1 2 1 9	
Cerebro-Spinal Meningitis	
Encephalitis Lethargica 5 1 1 2 1 4 Other Forms of Moningitis (not T.B.) 7 1 2 1 1 9	
Other Forms of Moningitis (not T.B.) 7 1 2 . 3 . 1 . 1 . 9	
Poliomyelitis	
Tonomyents	
Locomotor Ataxy	
Cerobral Hæmorrhage	
Other Diseases of the Nervous Sys'm 37 1 1 3 2 1 5 9 15 19	
Senile Decay 157 2155 99 Organic Heart Disease 209 5 5 4 22 40 127 73	
Arterio-Sclerosis	
Aneurism	
Other Diseases of the Circulatory System	
System 23 1 1 5 8 8 7 Bronchitis, Acute 23 1 1 1 2 1 16 2	
Bronchitis, Chronic	
Influenzal Broncho Pnoumonia	
Pneumonia (other forms)	
System	
Diarrhea and Enteritis	
Appendicitis, Typhlitis and Peritonitis	
tonitis	
Alcoholism	
Other Diseases of the Digestive Sy'm 52 1	
Other Diseases of the Urinary Sys'm 10	
Puerperal Fover	
Puerperal Pyroxia	
Prograncy and Parturition 7	
Congenital Dobility and Malforma'n 38 38 24	
Premature Birth	
Venereal Diseases	
System (Non-Malignant) 11 1 10 12	
Violent Deaths (excluding Suicide) 61 4 6 7 9 3 7 11 14 64	
Suicide 26 1 2 2 9 7 5 4 All other Defined Diseases 72 1 2 2 6 5 8 20 28 53	
All other Defined Diseases	
All Causes	

TABLE 8.

CLASSIFICATION OF DEATHS ACCORDING TO DISEASE.

	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	19	36
Cause of Death.	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Total Deaths	Death Rate
Enteric Fever						1						0 · 00
Smallpox	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1	• •	• •	2		••	• •	4	• •		
Measles	3	36			23	1		21		9		
Scarlet Fever	1	1		2			1	2	5	1		
Whooping Cough	20	1	4	8	5	15	9	2	5	7	5	0.0
Diphtheria and Croup	8	11	14	18	9	2	7	5	4	23	2	0.0
Influenza	23	74	19	65	7	52	31	61	11	21	12	0 · 1
Erysipelas	1	7		3	3	5	1	5	4	4		
Phthisis (Pulmonary Tuber-												
culosis)	106	96	82	114		97	79	84	67	79	79	0.6
Tuberculous Meningitis	2	2	7	4	9	7	5	5	4			
Other Tuberculous Diseases	8	12		9	9	11	14	7	7	10	9	0.0
Cancer, Malignant Disease	166	160	163	192	185	213	202			195	199	$1 \cdot 7$
Rheumatic Fever	• •	5	2	2	3	4	8	9	7	13	6	0.0
Meningitis	9	5	14	18	8	11	6	3	3		7	0.0
Organic Heart Disease	198		334		279	240	192		1	182		1.8
Bronchitis	192	221	119	190	140	209	129	178	1	178	203	1.7
Pneumonia (all forms)	112	175	152	201	143	139	89	137	118	141	116	1.0
Other Diseases of Respiratory	00	0.5	0.5	90	0.0	15	10	00	10	1.0	10	0.0
Organs	20	27	25 8	29 8	28 9	17 13	19 8	20	10 8		1	$0 \cdot 0$ $0 \cdot 0$
Diarrhœa and Enteritis	15 13	$\begin{array}{c} 24 \\ 12 \end{array}$		21	11	7		11 11	8			0.0
Appendicitis and Typhlitis Cirrhosis of Liver	2	$\frac{12}{3}$	19	4	4	5		11	2		8	0.0
Alcoholism	1	1	1			1						•••
Nephritis & Bright's Disease.			31	· · 66	76	7 5	72	· · · 86	67	84	78	
Puerperal Fever		3	1	2		1	1	00	3		2	0.0
Other Accidents and Diseases			1	_		1	1	• •	ľ		_	
of Pregnancy and Par-	1											
turition	7	10	6	13	7	5	8	6	6	5	7	0.0
Congenital Debility and Mal-												
formation, including Pre												
mature Birth	76	66	71	57	75	38	66	52	59	52	59	0.5
Violent Deaths, excluding												
Suicide	52	60	50	72	57	60	63	57	53	59	61	0.5
Suicide	16		20	17	26	25	22	31	23	22	26	0.2
Other Defined Diseases	494	514	372	435	379	501	495	574	563	593	549	4.7
Diseases ill-defined or un-												
known	3	1	7	6	3	••						• •
TOTAL	1616	1864	1535	1871	1605	1755	1542	1759	1581	1725	1664	14 · 3

Deaths:—The total number of deaths registered was 1,664, of which 795 were males and 869 were females. The death rate was $14\cdot3$ per 1,000, compared with $12\cdot1$ for England and Wales and $12\cdot3$ for the 122 great towns.

CAUSES OF DEATH AND SICKNESS.

During 1936 the chief causes of death were as under:—

Disease.					1	No. of	Deaths.	D	$eaths\ pe$	r 1,000.
Organic Heart	Dise	ase		 	 	209	(182)		1.80	$(1 \cdot 54)$
Pneumonia .	• • •	• • •		 	 	116	(141)		$1 \cdot 00$	$(1 \cdot 19)$
Cancer					 	199	(195)		1.71	$(1 \cdot 64)$
Bronchitis	• • •			 * - 1	 	203	(178)		1.75	(1.50)
Pulmonary Tul	berci	ılosi	S	 	 	79	(79)		0.68	(0.66)

The bracketed figures represent the corresponding number for 1935.

Diseases of bodily systems and group diseases to which death was assigned are as follows:—

Disease.		No. of	Deaths.	D	eaths pe	r 1,000.
Respiratory System (Non-Tubercular)		329	(335)		$2 \cdot 83$	$(2 \cdot 83)$
Circulatory System		334	(346)		$2 \cdot 87$	$(2 \cdot 92)$
Nervous System (Non-Tubercular)	• • •	128	(122)	• • •	1 · 10	(1.03)
Cancer		199	(195)		1.71	(1.64)
Tuberculosis (all forms)		88	(96)		0.75	(0.81)
Renal System (Non-Tubercular)		88	(86)		0.75	(0.72)
Infectious Diseases		20	(65)		$0 \cdot 17$	(0.55)
Digestive Diseases	• • •	76	(83)		0.65	(0.70)
Discases of Babyhood (under one year)		59	(52)	• • •	0.50	(0.44)
Diseases associated with Maternity		9	(7)		$0 \cdot 07$	(0.05)

The bracketed figures represent the corresponding number for 1935.

CANCER.

The deaths from Cancer numbered 199, as compared with 195 in 1935: 211 in 1934; 202 in 1933; 202 in 1932; 213 in 1931.

The Death Rates from Cancer per 1,000 of the population for the past 12 years are as under:—

1925		 1 · 26	1931	 	1.71
1926	•••	 $1 \cdot 33$	1932	 	1.65
1927		 $1 \cdot 28$	1933	 	1.66
1928		 $1 \cdot 30$	1934	 	1.76
1929	• • •	 $1 \cdot 53$	1935	 	1.64
1930		 1.48	1936	 	1.71

TABLE 9.

Deaths from Cancer Occurred at the Following Ages:

Age Period.	Male.	Female	Total	No. of population at this age period.	Number o deaths per 1,000 persons living.
Under 25 years	•••			38280	0.00
25 and under 35 years	2		2	28884	0.06
35 ,, 45 years	3	4	7	18212	0.38
45 ,, 65 years	33	60	93	24360	3.81
65 years and over	41	56	97	6264	15.48
	79	120	199	116000	1.71

TABLE 10.
SITES OF FATAL CANCER.

Site.		Male.	Female.	Total.
Tongue and Mouth		5	3	8
Oesophagus		6	2	8
Stomach		17	16	33
Liver		9	11	20
Bowel and Abdominal		10	25	35
Rectum		4	4	8
Bladder		2	_	2
Larynx		1	1	2
Uterus		_	15	15
Breast			25	25
Pancreas		3	6	9
Gall Bladder	;	1	2	3
Bones		3	1	4
Lung		4		4
Male Genital Organs		8		8
Others	• •	6	9	15
TOTAL		79	120	199

TREATMENT OF CANCER.

Cases are treated at the Blackburn & East Lancashire Royal Infirmary, which is a regional radium centre, by surgery, by radium, and by a combination of these methods. No beds are specifically allotted for the reception of the cases, patients being admitted to the wards of the surgeon in charge of the centre.

Facilities are also provided at the Queen's Park Hospital for surgical and palliative treatment. This Hospital works in close collaboration with the regional radium centre at the Royal Infirmary, selected cases being transferred to the latter Hospital for treatment.

No printed propaganda respecting cancer has been circulated in the area, but, in the course of health lectures which are carried out by the Department, reference is made to the necessity of securing early examination and treatment of this condition.

RADIUM TREATMENT OF CANCER.

The appended particulars are abstracted from the Royal Infirmary Report for 1936 :—

"The following is a summary of the number of cases and the various types of diseases treated during the year 1936:—

CARCINOMATOUS CONDI	TIONS (or—				In-Patients.		OUT-PATIENTS.
Forehead	• • •	• • •				2		6
Tonguo	• • •		•••	•••		14		30
Fauces		• • •	• • •			2		2
Larynx						0		$\frac{-}{2}$
Pharynx	•••		•••	•••		2		6
Floor of Mout						4		6
Roof of Mouth		•••	•••	•••	•••	0	•••	
77. 7		•••	•••	•••	•••	The state of the s	•••	4
	•••	•••	•••	•••	•••	4	•••	4
Tonsil	•••	•••	•••	•••	•••	11	•••	16
Cheek	•••	•••	•••	•••	•••	3	•••	8
Alveolus	•••	•••	•••	•••	•••	5	• • •	10
Inner Canthus	•••	•••		•••	• • •	1	•••	3
Ear	•••	•••	• • •	•••	•••	2	• • •	4
Nose		• • •	• • •			4		7
${ m Lip}$			• • •			5		12
Œsophagus -						1		1
Sarcoma—Hu	nerus					0		1
Epitholioma—						1		3
Lupus		•••				0		3
Nævus						7		41
Rodent Ulcer		•••	•••	•••	•••	$\frac{7}{2}$		70
Keloid Scar	•••	•••	•••	•••	•••		• • •	
	. 4	•••	•••	•••	•••	0	•••	5
Melanoma—Fe		•••	•••	•••	• • •	1	• • •	1
Melano—Sarco	oma	•••			• • •	0	•••	1
Arm	• • •	• • •	• • •	•••	•••	1	•••	2
Hand	• • •	•••	• • •	•••	• • •	0	•••	1
Finger		• • •		•••		1	• • •	4
Breast			• • •			26	• • •	59
Cervix						15		25
Vagina			• • •			3		3
Uterus						9		15
Vulva						2		4
Caecum						1		1
Anus				•••		3		3
Scrotum						5		9
Rectum	•••	• • •	• • •	•••	•••	3	•••	
	•••	• • •	• • •	•••	• • •		•••	3
Penis	•••			•••	• • •	1	•••	5
Bladder	•••	• • •	•••	• • •	•••	1	• • •	1
Parotid	• • •	•••	•••	•••	• • •	1	•••	2
Antrum		• • •	***	•••	• • •	0	•••	2
Angioma—No			•••	•••	• • •	0	• • •	1
Lip		• • •		• • •		1		1
Ski	n					0	•••	1
Malig. Glands-	-Neck					0		3
	Groin					1	• • •	1
Non-Malignan						6		20
						151		412

In addition 63 operations under local anæthesia have been performed for implantation of radon seeds.

During the last year the number of eases treated has again increased, and the attendances of patients have been more regular. As practically all cases treated with Radium are now followed up by X-Ray Treatment, the work of the X-Ray Therapy Department has been increased, and in consequence the deep therapy apparatus is working to its fullest capacity. The purchase of a Dosimeter during the year has made the treatments much more accurate and effective.

The Clinic will shortly have been working five years, and the effectiveness of the earlier treatments will be evident and of great assistance in determining future technique.

The arrangements with the Holt Radium Institute, Manchester, are working most satisfactorily, and I am grateful to the Staff of that Institution for their ready help."

J. KEITH CUMMING, M.B., CH.B. (ABERDEEN).

MORTALITY STATISTICS IN COTTON OPERATIVES.

The subjoined Tables are a continuation of those given in previous reports.

TABLE 11.

RESPIRATORY DISEASES (NON-TUBERCULAR).

DEATH-RATES PER 1,000 EMPLOYEES (1921 CENSUS).

DEATHS.

DEATH RATES.

ongy.	Bor	0.00 0.00 0.77 0.50 23.77 3.0	
nottoO 19 sevitatee		2.52	
mooH b		6.0	
nders, rpers, etc.	niW 8W	3.8 3.8 1.9 1.8	
nners.	iiq8	17.0	
Weavers.	표	0 .6 .3 .3	
. Wear	M.		0400
orough.	B	112 115 141 63 163	Tribenous Care
ner Cotton peratives.		70 4 0	PIII MONABY
'd Room Iands.			Prit
nders, etc. rpers, etc.	iW iW	. :	
nners.	iq8		
Veavers.	E.	: : 4 t c c c c c c c c c c c c c c c c c c	
Wеа	M.	1 2 3 3 3 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	
Age Period.		Years 15—25 26—35 35—45 46—55 65 and upwards Total	

					FULM	FULMONARY .	LUBERCO	LOSIS.						
		-							ľ			l		
15—25		G I		_		_	1.2		6.0		0		t c	(
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	:	.71	:	• (:	-	19	:	0.5	:	:	:	1.4	6.0
40 —00	n 0	:	:	21	:		13	3.0	:	:	3.9	:	2.4	8.0
00-00	20	: "	:	:	٠	:	15	4.6	:	:	:	:	:	1.4
oo and upwards.	:	→	:	:	:	:	41	:	0.8	:	:	:	:	0.5
TOTAL	7	œ		3		. ئ	7.9	1.1	4.0	:	9.0	:	1.3	0.8

TABLE 11—Continued.

NON-PULMONARY TUBERCULOSIS.

	•ជន្សលេ	Bo	0.04	0.04	0.1	0.1	90.0		1.1		9 0 9 0	25.8	95.7	11.8	15 8
	ner Cotton peratives.	O ti	:	::	:	::			0.7	ر د د د	2		500.0	12.8	16.7
ATES.	d Room fands,		:	::	:	::	:		:		? .	23.5	95 · 2	4.2	9-1
DEATH RATES.	nders, etc.	iV7	:	: :	1.9	::	0.2		9.0		7 10	23.0	138.4	5.0	7.3
D	.srənni	$_{ m dS}$:	: :	:	::			:	:	:	17.0	379.3	9.9	9.2
	vers.	표.	:			: :			0.4	1.0	77 T	23.6	112.9	3.3	4.9
	Weavers	M.	:		: :	4.9	0.1	Diseases.		:	9.0	13.6	189.5	8.1	11.7
	nough.	В			· 61	:-	9		26	38	1 0 0 0	243	657	1145	1525
	or Cottor		:	:	: :	::		г Отнев	1	က	— и	ာ တ	27	46	09
	d Room ands.			:	: :	: :		ALL		•		- ci	c1	9	11
DEATHS.	nders, rpers, etc.	$W_{ m B}$		•	: ¬	::			1	C)	— с	၈ ဟ	6	22	32
DEA	inners.	$d_{\mathbf{S}}$:	:	: :	: :	:			:	:	: 67	11	13	18
	Weavers.	F.	:	:	: :	::	:		ଦୀ	ıo.	===	91	14	09	88
	Wea	M.		:	: :	:7	1			: :	ରୋ ଜ	ч о	300	51	74
	Age Period.		Years 15—25			55—65 65 and upwards	TOTAL		16—95			55 - 65	-	TOTAL	GRAND TOTAL

TABLE 12.
Population, 1921 Census.

Age Period.	Wea	ı——	Spinners.	Winders, Warpers, etc.	Card Room Hands.	Other Cotton Operatives.	Borough.
	M.	F.	∞	M M	చ్చ	5°	Щ Щ
Years							
15—25	2019	7009	723	1616	530	1329	21946
25—35	1258	4892	490	1094	359	899	20876
35—45	1151	3380	367	819	269	674	19878
45-55	1000	1707	224	501	164	412	16052
55—65	660	676	117	261	86	215	10647
65 and upwards	201	124	29	65	21	54	6866
Тотац	6289	17788	1950	4356	1429	3583	96265

HOSPITAL ACCOMMODATION.

There have been no developments or changes in the hospital or pathological services provided by the Health Committee.

QUEEN'S PARK HOSPITAL.

The staffing of the above Hospital has been described in previous Reports.

The appended Table classifies the accommodation for the sick at the Queen's Park Hospital:—

TABLE 13.

Classification of	Number of		BEDS A	VAILABLE.	
Wards	Wards	Men	Women	Children	Total.
Medical	4	48	79		127
Surgical	. 2	37	33	•••	70
Children	. 3	•••	•••	126	126
Chronic Sick	. 5	71	74	•••	145
Tuberculosis	. 1	18	4	15	37
Maternity	. 1		30		30
Mental	. 2	66	94		160
Other		7		•••	7
TOTAL	. 18	247	314	141	702

(b) VOLUNTARY HOSPITALS.

The Blackburn and East Lancashire Royal Infirmary has accommodation for 244 in-patients. The beds are allotted as under:—

	Males.		Females.
General Medical	10	***	14
General Surgical	85	•••	83
Children	11		11
Venereal Disease	2		2
Eye, Ear, Nose & Throat	11	•••	15
TOTAL	119	•••	125

AMBULANCE FACILITIES.

(1) For Infectious Cases:—

The Health Committee provide Two Motor Ambulances.

(2) For Non-Infectious Cases: -

Three Motor Ambulances are available, one provided by the Watch Committee, one by the Joint Committee of the British Red Cross Society and the St. John Ambulance Brigade, and one by the Public Assistance Committee.

The Ambulance Service is fully adequate for the needs of the Area.

PUBLIC ASSISTANCE.

I am indebted to Mr. C. B. Pye, Public Assistance Officer, for the appended particulars.

No. of residents in the County Borough in receipt of out-door relief:--

1st January, 1936 ... 2233 families comprising 4240 persons.

1st July, 1936 ... 2098 families, comprising 3738 persons.

1st January, 1937 ... 2109 families, comprising 3749 persons.

No. of Blackburn persons relieved on the 1st January, 1937, in the--

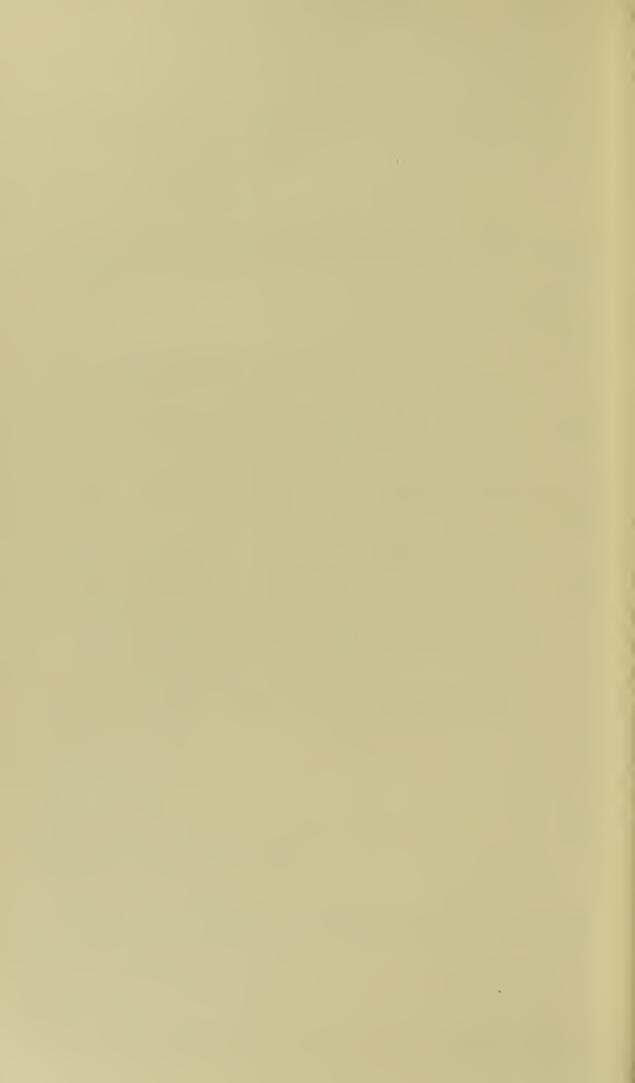
					_			
	Institution					720		
	Cottage Homes	3			• • •	38		
	Working Boys'	Home	•••			7		
	here are a numbe Working Boys' Council.	-					0	
	on out-relief to E tember, 1936, wa		_		ıring t	he 12 m	onths e	nded
	ourn persons in Q in the 720 mention			_		e lst Ja 	nuary,	1937 382
Average No.	of Blackburn po	ersons i	n the	Cotta	ge Ho	mes du	ring	

Average No. of Blackburn persons in the Cottage Homes during 1936 (per day)	45
Total number of Beds in the Institution, 1st January, 1937 1	243
Total number of Inmates on the same day (including persons chargeable to the Lancashire County Council) 1	036
Total number of Inmates of the Institution on the 1st January, 1937, who were suffering from sickness, accident, bodily or mental infirmity, including aged and infirm persons requiring regular	
nursing care or treatment	992
Total number of Sick Children on the 1st January, 1936	126
Admitted during 1936	682
Discharged during 1936	628
Died during 1936	43
Total number of Sick Children on the 1st January, 1937	137
Number of Beds available for Casuals	98

There has been no change in the method of administration of Poor Law Medical Out-Relief since the service was transferred to the Local Authority.

The districts, with populations, are as under:—

Districts.		Population 1931.		
St. Matthew's Ward Park Ward St. Thomas's Ward	}		•••	28868
St. Luke's Ward St. Paul's Ward St. Peter's Ward	}			22475
St. Mary's Ward St. Stephen's Ward Trinity Ward	}	·•		26384
St. John's Ward St. Michael's Ward St. Silas' Ward	}	•••		24208
St. Andrew's Ward St. Mark's Ward	}			20762



PART II.

Sanitary Circumstances.

WATER SUPPLY.

The town is supplied with an upland surface water, which has been satisfactory, both as regards quantity and chemical and bacteriological purity.

Samples are chemically examined at fortnightly intervals and bacteriological samples are taken at least once per month.

Appended are representative reports of baeteriological and chemical examinations carried out during the year:—

(a) CHEMICAL.

Numerical results expressed in parts per 100,000:

Colour : Green.	Turbidity:	Slight.	Smell	None.
Oxygen absorbed	0.121	Hardness: Clark	e's Metl	nod:
(4 hours at 27° C.)		Temporary		$1 \cdot 5$
Free and Saline Ammonia	0.0020	Permanent		$4 \cdot 8$
as NH_3		Total		$6 \cdot 3$
Albuminoid Ammonia	0.0108	Reaction, pH	6	5-7.0
as NH ₃		Action on Lead		
Nitrous Nitrogen	nil.	,, ,, Copper		0.06
as NH ₃		24 hou		
Nitric Nitrogen	0.045	Metals		Nil.
as $\widetilde{\mathrm{NH}}_3$				
Chlorides	$1 \cdot 3$			
as Cl.				

(b) Bacteriological.

Average Results of Four Examinations. Quantitative Analysis-

Aerobic micro-organisms	No. of colonies per			
aş	gar—			c.c. of water
In 3 days at 22° C.		 		78
In 2 days at 37° C.	•••	 		22

Bacteria associated with sewage or faecal Quantity of water in which pollution these bacteria were found not found

100 e.c.

10 c.c.

Bacillus coli ... Probable number of coli-acrogenes bacteria per One 100 c.c. of water

(c) Water Consumption:

Average Daily Consumption		 	• • •	• • •	3,664,265
					gallons
Estimated Population Supplied	•••	 			131,600
Average Consumption (all supplies)		 			28 gallons
				per	head per day

HOUSING.

	110001110.	
(a)	GENERAL.	
	No. of Houses Demolished	38
	No. of Houses completed and occupied during 1936:	
	(a) By Corporation	18
	(b) By Private Enterprise	328
	Action taken in respect of Temporary Buildings	Nil
	No. of Houses towards which a State Subsidy was paid	Nil
	No. of Houses in course of Erection at the end of 1936:	
	(a) By Corporation	18
	(b) By Private Enterprise	276
	Total No. of Houses within the Borough at 31st December, 1936	34929
	The Rents of the various Corporation Houses (inclusive of Rates) are as	
	follows :—	
	Parlour, 3 Bedrooms 16/3, 15/9, 15/3,	
	Non-Parlour, 3 Bedrooms 15/6, 15/0, 14/5, 13/4, 10/10,	
	Non-Parlour, 2 Bedrooms 10/9, 10/7, 10/3, Flats, 2 Bedrooms 7/11.	
	Flats, 2 Bedrooms 7/11.	
	No. of applicants on Waiting List at end of 1936:—	
	Parlour, 3 Bedrooms	Nil
	Non-Parlour, 3 Bedrooms (Large) 13/4	12
	Non-Parlour, 3 Bedrooms (Small)	82
	Non-Parlour, 2 Bedrooms	134
(b)	STATISTICS:	
1.]	INSPECTION OF DWELLING-HOUSES DURING THE YEAR:—	
	(1) (a) Total number of dwelling-houses inspected for housing defects	4500
	(under Public Health or Housing Acts)	4763
	(b) Number of inspections made for the purpose	10219
	(2) (a) Number of dwelling-houses (included under sub-head (1) above) which were inspected and recorded under the Housing	
	Consolidated Regulations, 1925	454
	(b) Number of inspections made for the purpose	454
	(3) Number of dwelling-houses found to be in a state so dangerous or injurious to health as to be unfit for human habitation	14
	(4) Number of dwelling-houses (exclusive of those referred to under the preceding sub-head) found not to be in all respects reason-	
	ably fit for human habitation	2575

2.	Rem	ED!	Y OF DEFECTS DURING THE YEAR WITHOUT SERVICE ON NOTICES:—	OF FORMAL
			umber of defective dwelling-houses rendered fit in consequence cormal action by the Local Authority or their officers	of 1729
3.	Acti	ION	Under Statutory Powers During the Year:—	
	A.	Pr	roceedings under sections 17, 18 and 23 of the Housing Act,	1930 :
		(1)	Number of dwelling-houses in respect of which notices were served requiring repairs	re 343
		(2)	Number of dwelling-houses which were rendered fit after service of formal notices:—	e
			(a) By owners	204
			(b) By local authority in default of owners	47
	R	Pro	oceedings Under Public Health Acts:	
	٥.			
		(1)	Number of dwelling-houses in respect of which notices were serve requiring defects to be remedied	167
		(2)	Number of dwelling-houses in which defects were remedied afte service of formal notices:—	F
			(a) By owners	101
			(b) By local authority in default of owners	0
	C.	Pro	oceedings Under sections 19 and 21 of the Housing Act, 19	930 :
			Number of dwelling-houses in respect of which demolition order	
		(1)	were made	0
		(2)	Number of dwelling-houses demolished in pursuance of Demolition	n
		(-/	Orders	4
	D.	Pro	oceedings Under section 20 of the Housing Act, 1930:	
		(1)	Number of separate tenements or underground rooms in rospect of which Closing Orders were made	. 0
		(2)	Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or room	
	•		having been rendered fit	0

INSANITARY DWELLINGS.

During the year the Ministry confirmed Clearance Orders in respect of the Harrison and Chapel Street areas. These properties have since been demolished and their occupants rehoused.

Twenty-nine further areas have been represented for elearance, and it is also proposed to deal with 48 individual dwellings by means of Section 11 of the Housing Act, 1936. It is estimated that satisfactory undertakings will be given to recondition 15 of the latter.

The largest area to be affected by the representations is that in the Water Street and Chapel Street districts, the remaining clearance areas being scattered throughout the town.

The whole programme involves 160 dwellings.

DISINFESTATION.

During the year 13 Council houses were found to be vermin-infested. These houses (together with attached adjacent houses to the number of 12) were disinfested by means of Hydrogen Cyanide. The bedding of the infested houses was steam-treated.

Fifty privately-owned houses in the Borough have been disinfested by officers of the Health Department, an insecticide spray being used for the purpose after easing the skirtings, architraves, etc. Bedding from nine privately-owned houses was disinfested by steam.

The belongings of tenants removed from Clearance Area houses are subjected to Hydrogen Cyanide disinfestation before transfer to a Corporation house, and the soft materials, such as bedding, are steam-treated.

Insecticides are available on request by tenants of infested houses; 50 applications for insecticide were received during the year and material was supplied in all eases.

OVERCROWDING.

The Report for 1935 contained a statement shewing that 383 houses, or $1\cdot09$ per eent. of all houses, were overcrowded.

Arising out of the overcrowding survey, the Health and Housing Committees considered the steps to be taken to secure abatement and, in doing so, had regard to 170 privately-owned and empty houses suitable for occupation by members of the working class.

The Property Owners' Association was approached with a view to those houses being offered to the Corporation for decrowding purposes, and the Association agreed to circularise their members to that end.

Since December 31st, 1936, 34 houses have been offered to the Health Department for decrowding purposes. The rents suggested by owners are considered by the Borough Treasurer, who also enquires into the circumstances of prospective tenants and fixes the rents which they may reasonably be expected to pay. Any difference between the rent fixed and the sum which the incoming tenant is able to pay is borne by the Corporation.

Of houses thus offered, 15 have been used for decrowding purposes, 14 were withdrawn, and five transfers are pending.

So far only houses which, by reason of their size (and correspondingly large rents and difficulty in letting) have been offered for decrowding purposes. No family-type houses capable of accommodating domestic units of 4—6 members have been offered, as their owners have no difficulty in letting houses of this size.

The house which falls empty following transfer of an overcrowded family to a larger house should, in theory, become available for decrowding an overcrowded family of smaller size. Practice has not upheld this theory, which is inoperative through the law of supply and demand.

Following our negotiations with the Property Owners' Association, it was hoped that utilisation of privately-owned and empty property might materially, though not completely, solve our overcrowding difficulties. Experience has not sustained this hope and, in consequence, a larger number of Corporation-owned houses will be required for the purpose than was anticipated.

Since the overcrowding census was completed 115 families have become decrowded for the following reasons:—

(a)	Found other accommodation	•••	70
(<i>b</i>)	Deaths, removals, etc., of members of family or of lodgers		45
	TOTAL		115

The appended Table gives particulars of overcrowding on December 31st, 1936:—

(a)	(i) Number of dwellings overcrowded at the end of the year	312
	(ii) Number of families dwelling therein	334
	(iii) No. of persons dwelling therein	$1937\frac{1}{2}$
(b)	Number of new cases of overcrowding reported during the year	Nil
(c)	(i) Number of cases of overcrowding relieved during the year	71
	(ii) Number of persons concerned in such cases	5391
(d)	Particulars of any cases in which dwelling-houses have again become overcrowded after the Local Authority have taken	
	steps for the abatement of overcrowding	Nil

HOUSING CONDITIONS.

The policy of reconditioning has been continued throughout the year. Up to December 31st, 1936, 1,320 houses have been dealt with, and approximately 200 houses are in the process of reconditioning.

HOUSES-LET-IN-LODGINGS.

The number (79) of houses-let-in-lodgings is less than in 1935, when 80 such houses were on the register. These houses provide 473 rooms, of which 78% were occupied, compared with 461 rooms, and 73% occupancy in 1935.

COMMON LODGING HOUSES.

There are 14 Common Lodging Houses in the Borough, which provide accommodation for 523 persons.

In all these houses the domestic conveniences are of a much higher standard than those provided at the majority of houses let in lodgings. Facilities for the storing and preparation of food, for personal ablution, etc., are in most cases satisfactory.

The bye-laws relating to these premises are adequate.

TENTS, SHEDS, CARAVANS, ETC.

At the end of the year there were 45 earavans in the Borough used as human habitations.

Constant sanitary survey is necessary if the caravans and their surroundings are to be kept in a cleanly and sanitary state.

The general cleanliness of the travelling vans which came to Blackburn during the Easter holidays was satisfactory.

The bye-laws in force are adequate.

CANAL BOATS ACTS, 1877 AND 1884.

The Corporation of Blackburn, as the Urban Sanitary Authority for the district of the said Borough, beg to report that during the past year they have carried into execution within their district the provisions of the Canal Boats Acts.

- (1) They have maintained in office an Inspector, Mr. Herbert Kenyon, appointed for the execution of the said Acts. Canal boats passing through the district have been regularly examined with a view to ascertaining if the Acts were being carried out.
- (2) Seventy-four canal boats have been examined and reported upon.
- (3) Two infringements of the Acts have come under the notice of the Inspector, namely:—
 - (a) Boat in a leaky condition;
 - (b) Master without certificate.
- (4) There has been no occasion to take legal proceedings.
- (5) Two Statutory notices have been served notifying the owners of the infringements and the requirements have been carried out in one instance. The other notice has not expired.
- (6) & (7) No case of infectious disease has been met with and there has been no detention of boats for cleansing or disinfection.
 - (8) (a) There are 40 boats on the register which are in use or available;
 - (b) One new boat has been registered;
 - (c) Two boats have been broken up.
 - (10) In the 74 boats met with there were 148 males, five females and 0 children.

OFFENSIVE TRADES.

The number of offensive trades within the Borough is 27, of which 16 are bone, and rag and bone dealing, four are fat extraction or fat rendering, one is gut-scraping, four are tripe-boiling, and two knackering.

Nuisances arising in connection with offensive trades are influenced by the amount of care exercised in the storage of the raw material and waste products. Careless methods of storage and production have been responsible for the majority of nuisances reported, and attention paid to these details has resulted generally in abatement of the nuisance complained of.

SANITARY ACCOMMODATION.

	••	• • •	• • •	• • •	•••	•••	• • •	•••	
Pail Closets .		•••	•••		•••				
Waste Water	Closets	•••	•••			•••			1
Fresh Water	Closets	•••	••		•••	***		•••	40
						TOTAL	•••	***	42
Conversions :-	_								
Pails by O	wners			•••				•••	
Pails by C	orporation				•••	•••		•••	
Waste Wat	ter to Fresh	Wate	er Close	ets:					
By Ov	vners							•••	
By Co	rporation					•••			
Wet Pails	by Owners							•••	
Privies to	Pails	•••	•••	•••	•••	•••	•••	•••	
-New Sewers :-									

...

321 lineal yards.

71 lin. yds.

120 lin. yds.

3.—Lavatory and Urinal Accommodation:—

9-in. diameter ...

Top water drain in Cemetery— 12-in. diameter

9-in. diameter ...

The same as last year.

4.—Collection of Refuse:—

4. 00	mount of mojuse.									
	House Refuse					Loads. 14409		ons. 779	Cwts.	Qrs. 3
	Market Rofuse	,			•••	949		991	2]
	Midden Rofuso		•••			4		1	5	0
	Shop and Trado Refu	so	•••	•••	•••	854	1	636	6	2
5.—As	shpit Conversions :—									
	No. of Ashpits Abolish	hed			•••			•••	1	
	No. of Bins substitute	ed in	lieu of	same	•••	•••	•••		1	
$A\eta$	oproximate :—									
	No. of Ashbins in use	•••				•••			37854	
	No. of Dry Ashpits in	use	•••	•••			•••	•••	7	
	No. of Wet Ashpits in	use	•••	•••	•••	•••	•••		I	
	No. of Excreta Pails i	n use						•••	153	
	No. of Tanks in use			•••				•••	7	

SWIMMING POOLS AND BATHS.

There are no privately owned swimming-pools or baths in Blackburn.

Three swimming baths are owned by the Corporation at which the water is treated by continuous filtration and chemicals.

SCAVENGING AND PUBLIC CLEANSING.

The arrangements for scavenging and public cleansing are similar to those described in the Report for 1933.

SANITARY INSPECTION OF THE AREA.

The appended Tables classify, in tabular form, inspections carried out by the Sanitary Inspectors during the year, their findings and action taken in respect thereof.

TABLE 14.

INSPECTION WORK.

No. of Complaints by Inhabitants					398
No. of Complaints referred from other De	partments				556
No. of Nuisances Discovered as Result of:-	_				
Complaints by Inhabitants		•			2767
Visiting Cases of Infectious Diseases	• •				110
Complaints from other Departments	• •				550
Notifications of H.M. Inspector of Fa	ctories				14
Routine Inspection Visits	• • • •				2417
Housing and Town Planning Inspecti	ions				4037
Visits to Factories and Workshops	••	••	• •	• •	7
Total number of Defects found			• •		8933
Total number of Defects remedied .			• •		5840
No. of Informal Notices Served					2575
No. of Formal Notices Served					504
No. of Informal Notices complied with .					1230
No. of Formal Notices complied with .					305
No. of Interviews					346
No. of Letters sent out					66

Particulars of sanitary improvements made and defects remedied under the supervision of the Sanitary Inspectors are contained in the following Table:—

TABLE 15.

DWELLING HOUSES.		DAIRIES, COWSHEDS, AND MILKSHOPS-
Insufficient closot accommodation		Continued.
Water supply improved		Internal walls and ceilings re-
Cleansed and limewashed	104	pairod 2
Overcrowding abated	2	Improved yard space 0
Damp and defective house,	CFA	T J T T
walls, roofs, etc	654	TOD CORDING MANAGEMENT COMPANY
Defective gutters and down-	057	ICE CREAM MANUFACTORIES.
spouts	275	Cleansing and limewashing 135
Cleansing dirty floors woodwork	17	Sanitary conditions improved 2
,, ,, woodwork	4 8	
bodding	6	2077.0.07.2
,, ,, dirty yards	_	SCHOOLS.
		Playgrounds—repairs to drains —
coller areas		,, ropairs to asphalte. —
Obstructive buildings removed	_	" repairs to paving —
Defective sink waste pipes	194	repairs to flags 3
Defective dishstones	16	Urinals repaired or improved
Waste pipes disconnected from		Sanitary accommodation repaired
drain	1	or improved 1
Yards and passages reflagged	67	
Yards badly paved or flagged	116	WORKSHOPS & WORKPLACES.
Insufficient lighting and venti-		
lation of rooms	195	Cloansed and limewashed 8
Defective chimney flues	70	Provided with sufficient sanitary
Window sash frames, cords,		accommodation — Sanitary condition improved 1
internal walls, ceilings, floors,		Sanitary condition improved 1 Ventilation improved —
stairs, fireplaces, doors, cup-	0410	Overcrowding abated
boards to be repaired	2418	Drains repaired
Dangerous and defective chim-	53	Other nuisances abated
ney stacks		Other hardanees abarea !!!!!!
Gas pipes repaired	7	
Water pipes repaired	76	DRAINS.
Yard division walls	53	Re-layed 53
Defective and bulging external		Cleansed or repaired 111
walls	20	Intercepting traps provided —
Absence of handrails to staircases	239	Soil pipes repaired 8
Outbuildings repaired	193	Self-cleansing gullies provided 26
Washing Accommodation pro-		
vided	48	WATER CLOSETS.
Food Cupboards provided	47	
		Cleansed — — — — — — — — — — — 59
BAKEHOUSES.		
Cleansed and limewashed	31	Cisterns and flushing fittings repaired
Sanitary accommodation im-		Provided in substitution of slop-
proved		water closets
Drains repaired	-	Water closets
Animals removed	3	
Other nuisances abated	ა	PAIL CLOSETS.
DAIDING COMUNICION AND		Nuisance abated —
DAIRIES, COWSHEDS, AND		Converted from privies 2
MILKSHOPS.		
Reconstructed	_	OFFENSIVE TRADES PREMISES.
Dairy	4	
Middonsteads		Limewashed 54
Floors repaired	9	
Improved Lighting		COMMON LODGING-HOUSES.
Improved ventilation	1	Cleansed and limewashed 28
Improved drainage	_	Other nuisances abated 1
Cubic space increased		Outot initiations abarded

TABLE 15—(Continued).

IABI	111	(Continuat).	
OFFENSIVE ACCUMULATIONS.		ASH RECEPTACLES.	
Removed	55	RepairedPortable roceptaclos provided	413
ANIMALS SO KEPT AS TO BE		STABLE PREMISES.	
A NUISANCE.		Removing manure	2
Nuisances abated	4	Reconstructed middensteads	3
SEWERS.		HOUSES LET IN LODGINGS.	
Cleansed	46	Nuisances abated	7
SLOP-WATER CLOSETS.		CANAL BOATS.	
Nuisances abated	12	Leaky condition	1
Converted to W.C.'s	80	Cover to water cask provided Boat not registered	_
		Master without Certificates	1
ASHPITS.		Boat not proporly marked Unsuitable certificato	_
Abolished	27	Water Vessel provided	
	_		
DETAILS	OF INS	SPECTION WORK.	
Schools	56	Infected Houses	916
Tents, Vans, Sheds	144	Small Pox Contacts	41
Factories	23	Housing and Town Planning Acts	5378
Workshops	285	Fishmongers and Greengrocers	8
Workplaces	42	Ashes Receptacles	671
Bakehouses—Ordinary		Food Preparing and Storing Places.	507
Underground	750	Outworkers' Premises	
Cowsheds	756 3952	Enquiries re Milk Supply	22
Ice Cream Premises	1364		4963
Offensive Trade Premises	178	Dwolling Houses	4903
Fried Fish Shops	6	Samples of—	
Common Lodging Houses	359	Milk purchased for Sediment	
Stable Premises	50	Test	872
Offensive Accumulations	55	Milk Purchased for Chemical	222
Animals so kept as to be a nuisance	4	analysis	290
Sewers	46	Milk purchased for bacteriological	200
Street Gullies	129	analysis	329
Canal Boats	72	Labelling of Condensed Milk Tins.	388
Smoke Observations	26	Insufficient Water Supply	1
Theatres and Cinemas	110	Miscellaneous	286
Houses Let-in-Lodgings	1332	Morchandise Marks Acts	3844
Dirty Houses	224	Special Inspections re Overcrowd-	1004
Common Yards, Back Roads and Passages	1254	ing	1824 4841
1 40544505	1207	Routine (work in progress)	±0.41

TABLE 16.

FACTORIES, WORKSHOPS AND WORKPLACES.
1.—Inspection of Factories, Workshops and Workplaces. Including Inspections made by Sanitary Inspectors or Inspectors of Nuisances.

D	Number of								
Premises. (1)	Inspections (2)	Written Notices (3)	Prosecutions (4)						
FACTORIES (Including Factory Laundries)	23	7							
Workshops (Including Workshop Laundries)	285	6	•••						
Workplaces (Other than Outworkers' premises)	42	•••	•••						
Total	350	13	•••						

2.—Defects Found in Factories, Workshops and Workplaces.

	Nu	imber of Det	fects.	Number of offences in
Particulars.	Found.	Remedied.	Referred to H.M. Inspector.	respect to which prosecut'ns were instituted.
(1)	(2)	(3)	(4)	(5)
Nuisances under the Public Health Acts:				
Want of Cleanliness	3	3	•••	
Want of Ventilation			•••	
Overcrowding	•••			
Want of drainage of floors			•••	•••
Other Nuisances		•••	•••	•••
Sanitary Accommodation :—				
Insufficient	3	3	•••	•••
Unsuitable or defective	4	4		•••
Not separate for sexes	4	3	•••	•••
Offences under the Factory and Workshops Acts:—				
Illegal occupation of underground				
bakehouse (s. 101)	1	1	•••	•••
Other offences	4	2	•••	•••
(Excluding offences relating to				
outwork and offences under the				
Sections mentioned in the				
Schedule to the Ministry of Health				
(Factories and Workshops Trans				
fer of Powers) Order, 1921.)				
TOTAL	19	16		

FACTORIES AND WORKSHOPS.

TABLE 17.

This Table contains particulars of matters referred by the Factory Inspector and of action taken by the Health Department in respect thereof:—

FACTORIES.

Sanitary Accommodation: The sanitary convenience was in direct communication with the workroom.

Notice was sent, and the convenience, being surplus to requirements, was removed.

Sanitary Accommodation: A sufficient number of conveniences not provided for the females employed in the sewing machine room. The same conveniences were not separated from the workroom by an intervening ventilated space.

Notice was sent and it was complied with satisfactorily.

Sanitation: The sanitary convenience was not separated from the workroom by means of an intervening ventilated space.

Notice was sent and a new water closet was crected in the open air.

Sanitary accommodation: Separate conveniences not provided for persons of both sexes employed.

Notice was sent and an existing w.c. not in use was provided.

Sanitation: The women's sanitary convenience in the machine room was not separated from the workroom by means of an intervening ventilated space.

Notice was sent and the sanitary convenience was satisfactorily disconnected from the workroom.

Sanitary accommodation: No proper fastenings provided on the door of the convenience for females, and the approach was not separated nor screened from the convenience used by men from the adjoining factory.

Notice was sent and the use of the men's convenience was discontinued. Fastenings were fitted and a screen erected.

Sanitary accommodation: Separato convenience not provided for the three females employed.

Notice was sent and new closets were erected on the pail system, owing to a water supply and sewer not being available.

Sanitation: The intervening space between the women's sanitary convenience and the workroom on the third floor was not ventilated.

Notice was sent and ventilation was provided.

Table 17—Continued.

Sanitary accommodation: The door of one of the women's sanitary conveniences required a bolt.

Bolt fixed on receipt of notice.

Sanitary accommodation: Insufficient number of eonveniences provided (three only for 110 employees).

Notice was sent and an additional sanitary convenience was provided. (Number of employees under 100).

Sanitary accommodation: Separate conveniences not provided for persons of both sexes employed.

Notice was sent and an additional separate convenience was provided for females.

BAKEHOUSES.

Sanitation: Limewashing overdue.

Notice sent—completed.

Sanitation: Limewashing overdue. Notice sent—completed.

Sanitation: Limewashing one month overdue—completed previous to inspection.

SMOKE OBSERVATIONS.

During the year 26 smoke observations were made.

The standards of smoke permissible from a factory chimney in Blackburn are as follows:—

One boiler	• •	 	4 minutes black smoke in the hour								
Two boilers		 	5	,,	.,						
Three boilers		 	6		,,	,,					
Four boilers or	more		7								

ACCOMMODATION IN SCHOOLS, 1936.	No. of Trough Closets Together Urinals.	No. with	o- By Sparge out sparge ally. Hand Pipes Pipes	14	- 20 -	- 12 6 10	- 18	_ 20	- 16 -	15	1	oo	. – 10		- 6 10	- 12 -	1	<u>्</u>	, io	- 18 -	- I	eo	10	10	10	6	9		8
-			Automatic Auto- Cisterns matically.		 	 - 	- 26 -	1		18 6			 	13	16 –	 	6 - 	16 –		13	 	9	4 -	1	 	- 	- n	13	
	No. of Pedestal Water Closets Flushed with		Separate Cisterns	30	39	જા	1	36	18	1	1	1	1	લ્ય	7	50	Т	7	ભ	બ	13	ભ	12	2]	9	က	1	1	
	NO.	Rolls		250	607	237	438	665	329	517	305	232	165	225	374	414	88	259	232	627	273	15	549	822	195	539	142	304	
TATEL TATEL	Schools			ACCRINGTON ROAD	AUDLEY C	BANK TOP C	BANGOR STREET	BLAKEY MOOR C	CEDAR STREET C	CHRIST CHURCH C.E	EMMANUEL C.E	FURTHERGATE C	FOUR LANES FND C	GRIFFIN C.E	HOLY TRINITY C.E	INTACK COUNCIL	LOWER DARWEN C	Mill Hill C	Moss Street C	C.E. Central	PARK ROAD C	REGENT STREET SPECIAL	ST. AIDAN'S C.E	St. Alban's R.C	St. Alban's H.G. (Boys)	St. Anne's R.C	St. Andrew's C.E	ST. BARNABAS, C.E	

		Remarks.																										
3, 1935.	URINALS.	No. with-	out sparge	Pipes	7			9		6	6	!	1	10	ન ા	1	15	7	12	12	ଚା		1				1	
SCHOOLS,	URD	No. with	Sparge	Pipes	1	6	∞	લા	6	1	1	17	12	1	4	15	!	7	I	1	ଦୀ	12	ဗ	18			∞	6
_	No. of Trough Closets Together	WITH NO. OF SEATS FLUSHED:	By	Hand	 	1	1	1		1	1	1	7	1	1	1		1	1	1	1	1	J]				1
ACCOMMODATION IN	No. of Trough Closets Togethe	WITH NO. FLUS	Auto-	matically.	7	1	4	10	23	14	1	I	9	12	10	1	1	21	I	1	7	1	9	1			6	13
	Pedestal Closets	нлім о	Automatic	Cisterns	1	6	က	1	1	1	16	25	1	1	1	13	1	1	16	12	1	∞	1	ı			I	1
SANITARY	No. of Pedestal Water Closets	FLUSHED WITH	Separate	Cisterns	İ	1	1	1	1	1	1	03	1	7	1	1	15	1	1	ı	1	61	1	81			_	1
2 0		No. on Rolls			119	172	56	69	379	493	232	496	143	307	507	315	135	218	332	422	147	185	47	504			1	1
ned.					:	į	÷	:	÷	i	:	:	:	:	i	÷	:	:	:	:	÷	:	:	÷		. S.1	:	:
TABLE 18—Continued.		SCHOOLS			ST. GABRIEL'S C.E	ST. JAMES' C.E	St. James' B.A.M	St. James' C.E. (GUIDE)	ST. JOHN'S C.E	St. Joseph's R.C	St. Luke's C.E	St. Peter's R.C	ST. MICHAEL'S C.E	St. Matthew's C.E	St. Mary's R.C	ST. PAUL'S C.E	St. Peter's C.E	ST. STEPHEN'S C.E	St. Silas, C.E	St. Thomas' C.E	SACRED HEART R.C	Wensley Fold C.E	WITTON (C.E.) INFANTS'	ROE LEE PARK	JUVENILE UNEMPLOYED	TRAINING CENTRE SCHOOLS:	MAUDSLEY STREET	AUDLEY RANGE

Particulars regarding the control of infectious disease in, and the water supply of, local schools, have been fully described in previous reports.

THE TESTING OF DRAINS.

No. of Smoke Tests					 	118
No. of Water Tests					 	33
No. of Colour Tests					 	97
Breaking Down					 	34
Inspections made while	work	was in	progre	88	 	705
Total number of Defects	s foun	d			 	146
No. of Informal Notices	Serve	d			 	121
No. of Formal Notices	Served				 	23
No. of Defects Complete	ed				 	139
No. of Defects outstand	ing at	end of	1936		 	7

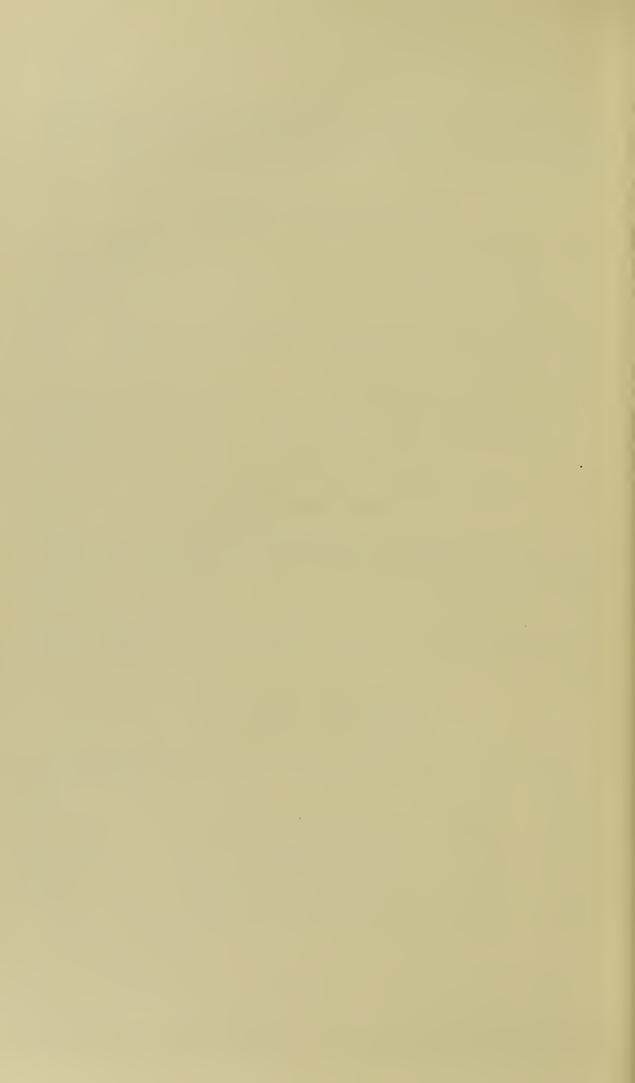
THE RAG FLOCK ACTS, 1911 & 1928.

There is one premises in Blackburn where rag-flock is used. The flock is not manufactured locally, but is purchased under guarantee of Government Standard of Cleanliness.

The premises concerned have been visited in the course of routine district inspections.

DISPOSAL OF THE DEAD.

The arrangements for the disposal of the dead will remain adequate for at least a further ten years.



PART III.

Food Supply.

REPORT OF THE VETERINARY INSPECTOR, [act our (Mr. E. J. Burndred, M.R.C.V.S., D.V.H.).

FARM AND DAIRY CATTLE INSPECTION.

During the year 244 visits were made to farms; 430 eowsheds were inspected, and the udders of 5,804 eows examined.

Four eows on three farms in the Borough were found to be affected with tuberculosis of the udder. They were all slaughtered and, on post mortem examination, were elassed as advanced tuberculosis.

Two eases of tuberculosis with eough were slaughtered and, on post mortem examination, the disease was found to be advanced, but neither of the careases showed leisons in the udder.

Two cases of tuberculous emaciation were dealt with. They were both cows; they were slaughtered and post mortem examination showed advanced tuberculosis.

Twenty-three cows were found to be affected with mastitis in one or more quarters of the udder, and in these eases the milk was not used for human eonsumption during the affection.

Dairies, Cowsheds and Milkshops.

Regular visits were paid to all producing and retailing premises in Blackburn, and many visits were paid, in conjunction with, and by the courtesy of, the local officials to milk producing premises outside the Borough which supply milk for consumption in the Borough. It appears that nothing short of compulsion will convince many of the producers of the necessity for steam in the sterilisation of utensils.

CLEAN MILK COMPETITION.

There are four classes of competitors for the Clean Milk awards.

A silver eup is awarded in each class, and this is held by the winner for one year. He also receives a miniature eup and gold medal which he retains.

Class I is open to producers of raw designated milks purveyed in Blackburn. The award in this class is the "Redmayne" Cnp. The winner for 1936 was A. Threlkeld, Hatchwood Farm, Hoghton.

Class II is open to producers of non-designated milks purveyed in Blackburn. The award in this class is the "Porritt" Cup. The winner for 1936 was R. Wade, Low Farm, Clayton-le-Dale.

Class III is open to producers of designated milks whose main source of livelihood is dairy farming. A trophy is awarded for the best farm, and this is the "Burke" Cup. The winner for 1936 was J. W. Sedgwick, Elswick Farm, Mellor.

Class IV is for the best undesignated dairy farm under the same conditions as Class III. The winner for 1936 was F. Houldsworth, Dodds Farm, Samlesbury.

Mr. John Redmayne, who, from the inception of the Competition, has always taken the greatest interest, and who kindly gave the "Redmayne" Cup for competition in Class I, consented to take the place of the late Arthur Holgate, and now acts as Judge in Classes III and IV.

MILK (SPECIAL DESIGNATIONS) ORDER, 1936.

This Order, which came into force on June 1st, 1936, revoked the Milk (Special Designations) Order, 1923, and there are now three main grades: Tuberculin Tested, Accredited, and Pasteurised. In addition, the "Tuberculin Tested" may be pasteurised; it is then officially known, and must be labelled as "Tuberculin Tested Milk (Pasteurised)."

The "Tuberculin Tested Milk" is milk from cows which have passed a veterinary examination and a tuberculin test. It may be bottled at the farm or elsewhere; and it may be pasteurised, as stated above, or raw. Producers of this grade are outside the control of the Milk Marketing Board.

The "Accredited Milk" is raw milk from cows which have passed a veterinary examination. It may be bottled on the farm or elsewhere. This grade of milk is recognised by the Milk Marketing Board, and all producers who obtain a lieence from the Local Authority receive a bonus of one penny per gallon for all milk produced. This bonus has proved a great incentive to farmers; much improvement, both in methods and equipment, has taken place.

After 12 years' operation of the Milk (Special Designations) Order, 1923, the number of Grade A Milk (which is similar to Accredited Milk) Producers was only 800. Since the 1936 Order became operative the latter number has risen in England and Wales to the satisfactory figure of 20,000 Accredited Producers.

"Pasteurised Milk" is milk which has been retained at a temperature of not less than 145° F. and not more than 150° F. for at least 30 minutes, and immediately cooled to a temperature of not more than 55° F.

The Ministry of Agriculture and Fishcries has formulated a scheme which has as its ultimate aim the eradication of tuberculosis from the bovine population of this country. It is called the Tuberculosis (Attested Herds) Scheme, England and Wales.

The Ministry tuberculin test those herds which have had no reactors to the tuberculin test on the last two six monthly tests, and if they find no reactors, they issue a Certificate of Attestation.

The seheme is thorough, and as a consequence, growth is slow, but it is the first real attempt at eradication of bovine tuberculosis in this country, and therefore deserving of every help and encouragement.

Blackburn has been able to help and encourage a producer who is at present the only one to receive a certificate of Attestation in Laneashire. Milk from this producer is retailed in Blackburn, and the whole of the supply at the Infectious Diseases Hospital and the Maternity Hospital is obtained from the same herd.

Tuberculin Tested Milk.—As stated, tuberculin tested milk is used at the Corporation Infectious Diseases Hospital and the Maternity Hospital. The same producer retails in Blackburn.

Milk from another tuberculin tested herd is sold by a retailer.

Accredited Milk.—It is difficult to give a correct estimate of the number of accredited producers supplying milk to Blackburn, as a person may be an accredited producer and supply the milk wholesale to a dairy. There are, however, 17 accredited producers in the district supplying milk for retail trade, and six of these are in the Borough. There are also 12 dairymen who retail Accredited Milk. The number of Accredited Producers supplying milk to dairies in the Borough is 20.

Pasteurised Milk.—Two dairies in the Borough are licensed for the pasteurisation of milk. The local Co-operative Society is a member of a joint dairy situated a few miles from Blackburn. Other dairies also obtain supplies from licensed establishments outside Blackburn.

Sterilised Milk is not a designated milk, but it is now largely used. A number of factories outside, in addition to two dairies in the Borough, cater for this trade.

Tubercle Bacilli.—Three hundred and twenty-six samples of milk were taken and examined for the presence of tubercle bacilli. The samples were made up as follows:—Three hundred and two mixed samples were taken in the course of delivery; eight samples were taken from the udders of cows showing some abnormality of the udder; and 16 samples were control samples.

Of the 302 samples taken, 10 contained tubercle bacilli; 287 were negative; and in five cases the experimental animal died before a definite diagnosis could be made. Four special samples were positive, and four were negative.

The 10 mixed samples which contained tubercle bacilli were from eight farms in the County area, and two farms in the Borough.

The first sample, from a farm in the Borough, a cow was found which was eliminating tubercle bacilli in the milk, and this cow was slaughtered.

A control sample of milk was also tubercular, and a further cow was found which, on post mortem examination, showed early and very active lesions of tuberculosis.

The second sample, also from a farm in the Borough, no cow showing any clinical symptoms was found, but a cow which was rapidly wasting had been sent away a fortnight previously. Control samples, however, were positive, and after further examinations of the herd, a cow affected with tuberculosis of the udder was discovered and slaughtered.

The eight samples from the County area were reported as follows :—

- (1) Three cows with tuberculosis of the udder were discovered and slaughtered. A prosecution in connection with one of the cows led to a fine of £10 and costs.
- (2) One cow with tuberculosis of the udder was found and the owner was fined £10 and costs for not reporting.

- (3) One eow with tuberculosis of the udder was found and was slaughtered.
- (4) One cow with tuberculosis of the udder was found and was slaughtered.
- (5) One cow with tuberculosis of the udder was found and was slaughtered.
- (6) No tuberculous cows were found and all samples were negative.
- (7) One eow with tuberculósis of the udder was found and was slaughtered.
- (8) One cow with tuberculosis of the udder was found and was slaughtered.

Two reports from other Authorities were received, one of tuberculosis in a sterilised milk; and one in milk from a farm in the Borough. In the first case the milk came from a dairy in Blackburn. All the eattle from farms in Blackburn and the West Riding supplying the dairy were examined, and in the West Riding one cow affected with tuberculosis of the udder and one cow with pulmonary tuberculosis were slaughtered.

In the Laneashire County Council Area control samples were taken and one was returned as positive but no infected cow was discovered.

One of the County positive samples above was from a farm supplying this dairy, and a cow was discovered there.

In the second case a cow with tuberculosis of the udder was discovered and slaughtered.

Of the four positive special samples, one was from the above case; two were at one farm in the Borough; and the fourth was from a cow found during routine dairy inspection.

Mixed samples of milk supplied to the Royal Infirmary and the Corporation Hospitals were taken periodically and examined for the presence of tuberculosis.

On one oceasion the supply to the Royal Infirmary was tuberculous, and on examination, one of the cows reported above in connection with a County supply, was dealt with.

Milk in Schools Scheme.—Approximately 3,068 pints of milk are consumed daily in schools in Blackburn.

Milk in Mills.—Milk is being supplied for consumption by the workpeople to 27 mills or workshops in Blackburn and 19 factories outside Blackburn, from a dairy in the Borough.

Consumption of Milk per head of the Population.—According to reports received, 7,743 gallous of milk are sold in Blackburn daily. Taking the population as 118,200, this gives 0.52 pint of milk per day per head of the population.

Butter.—Three dairies in the Borough regularly make butter and are registered under the Food and Drugs (Adulteration) Act, 1928.

Cheese.—One dairy earries out the manufacture of cheese on an extensive scale, and has great demand for its product.

BACTERIOLOGICAL EXAMINATION OF MILK.

(a) B. Coli.

Three hundred and nineteen samples of milk were submitted to the Baeteriologist City Laboratories, Liverpool, and the University School of Animal Pathology. The following is a summary of the results:—

Bacillus Coli Content :-

Not found	l in 1 cubic cer	ntimetr	e	 	 	 114
Found in	1 c.c. only			 	 	 62
,,	0·1 c.c.	• •		 	 	 40
,,	0.01 c.c.		• •	 	 	 37
**	0.001 c.c.			 	 	 66

The presence of B. Coli, or a member of its group, is evidence of manurial contamination of the milk.

The above results show 35.73% elean ; $31\cdot99\%$ with slight contamination ; and $32\cdot28\%$ grossly contaminated.

The appended table gives particulars of B. Coli counts month by month. The heaviest contamination appears to be in June, July, August and September, when the cows are at grass, and November, when the cows are at grass in the

daytime and housed at night. The latter is a particularly difficult time as, usually, the eows are grazing on second erop, which is laxative, and as a result the fæecs are more fluid than usual.

TABLE 19.

1936	Not Present in 1-C.C.	Present in 1-C.C.	Present in 1/10 C.C.	Present in 1/100 C.C.	Present in 1/1,000 C.C.
January .,	, 4	1	2	3	3
February	2	4	3	2	1
March .	. 33	11	2	2	7
April .	. 3	5		4	1
May .	4	3	1	1	5
June .	23	11	6	5	11
July .	5			4	9
August .	2			3	9
September.	2			4	10
October .	20	11	12	7	4
November .	. 1	4	2	2	4
December .	. 15	12	12		2
TOTAL .	. 114	62	40	37	66

Examination of Milk for Dirt.

Samples of milk examined for dirt are filtered through cotton wool dises, and these are then dried and mounted. They are then available for records and for demonstration to the producers.

Letters are sent to purveyors of contaminated milk, and wherever possible, visits are paid to the producing premises.

There is a very good and helpful liaison between this Department and the various local sanitary departments. During the year 832 samples of milk were taken and examined for the presence of dirt. One hundred and fifty-six of these samples were from producer retailers whose premises are in the Borough. They were classified as follows:—

Clean		 		 62 or	39.74%
Fairly Clean		 	•••	 81 or	51.92%
Contaminated		 		 9 o	5.76%
Grossly Contan	ninated	 		 4 01	2.56%

Four hundred and twenty-nine samples were taken from producer retailers whose premises are in the County Area.

	 •••	187 or	43.58%
	 	167 or	$38 \cdot 92\%$
	 •••	58 or	13.52%
	 	13 or	3.03%
d	 •••	4 or	0.93%
	 		167 or 58 or 13 or

Thirty-one samples were taken from retailers who reside in the Borough, but who obtain their supplies from producers whose premises are, for the most part, outside the Borough.

Clean	 	•••	•••	•••	8 or 25.8%
Fairly Clean	 		•••	•••	18 or 58.06%
Contaminated	 				5 or 16·1%

Fifteen samples were taken from retailers whose premises are outside the Borough.

Clean		 •••	•••	•••	8 or 53·33%
Fairly Clean	•••	 			4 or 26.66%
Contaminated		 			3 or 20.00%

Two hundred and one samples were taken from wholesale producers at the dairies supplied by them before the milk was handed over.

Clean	•••	•••	 •••	 7	or	3.48%
Fairly Clean	•••	•••	 	 112	or	55.72%
Contaminated			 	 65	or	$32 \cdot 33\%$
Grossly Contan	ninated		 •••	 15 (or	7.46%
Very Grossly C	ontami	nated	 	 2 (\mathbf{or}	0.99%

CHEMICAL ANALYSIS.

Two hundred and ninety samples of milk, 240 of which were informal, were taken during the year and examined at the Public Health Laboratory, Liverpool. Fifteen samples, or 5·17% were reported not to conform with the standard prescribed by the Ministry of Agriculture. If an informal sample proves not to be genuine on analysis, a formal sample is purchased and submitted to the analyst.

TABLE 20.

AVERAGE COMPOSITION OF MILK SOLD IN BLACKBURN,
YEAR 1936.

Мом	TH			No. of Samples Taken.	% of Fat	% of other Solids.
January				48	3 · 73	8 · 87
February				13	$3 \cdot 45$	8.94
March				13	$3 \cdot 59$	8 · 73
April				53	3 · 60	8.89
May				12	$3 \cdot 99$	9.01
June				12	$4 \cdot 02$	8.95
July				43	$3 \cdot 79$	9 · 27
August	• • •			13	$3 \cdot 85$	9.05
September	• • •			47	$3 \cdot 82$	9.22
October				12	4.48	9 · 24
November				12	$4 \cdot 24$	9.09
December	•••		· · •	12	$4 \cdot 75$	9 · 16
Averag	ge	•••	-	290	3 · 94	9.04

PUBLIC HEALTH (PREVENTION OF TUBERCULOSIS) REGULATIONS, 1925.

No action was necessary with regard to tuberculous employees in the Milk Trade.

THE PUBLIC HEALTH (CONDENSED MILK) REGULATIONS, 1923 & 1927.

Fifteen samples were purchased under the above regulations. Two were found, on analysis, to be deficient in milk solids. All were properly labelled.

These samples are included in Table 29, Food and Drugs (Adulteration) Act.

THE ARTIFICIAL CREAM ACT, 1929.

No action has been taken under the above Act.

THE PUBLIC HEALTH (DRIED MILK) REGULATIONS, 1923 & 1927.

No action has been taken under the above Regulations.

FOOD PREPARING PREMISES.

SECTION SO BLACKBURN CORPORATION ACT, 1922.

This Section reads as follows:—

"Any premises ordinarily used, or proposed to be ordinarily used, for the preparation or manufacture of sausages, pressed, potted or preserved meat, fish or other food, intended for the purposes of sale, shall be registered by the owner or occupier thereof with the Corporation from time to time in such manner as they may direct, and no premises shall be used for the purposes aforesaid unless the same are so registered, and the Corporation shall have power to refuse registration of any premises where the conditions are unsuitable."

There are 46 premises registered under the above section, and in addition there are a large number of food preparing premises which are exempt from registration.

Five hundred and seven visits were made to such premises. Generally they were found to comply with requirements.

In certain cases, the necessity for repairs was pointed out, and in other cases suggestions for improvements were made and in all cases improvements were effected.

DISEASES OF ANIMALS ACTS & ORDERS.

Foot and Mouth Disease.—There were 67 ontbreaks in Great Britain, necessitating the slaughter of 5,114 animals. There were no outbreaks in the vicinity of Blackburn.

Anthrax.—There were 468 outbreaks confirmed in Great Britain affecting 549 animals.

The dressed earease of a pig with the pluck only, was sent to the Abattoir for inspection, before being received at a food preparing establishment. Examination of the earease showed signs of disease and blood examination revealed Anthrax bacilli. The earease was cremated at the Audley Destructor,

and the Police of the area from which the carease had been brought were notified. The owner and the person who slaughtered the pig were prosecuted. The owner was fined £2, £1 and costs, and the slaughterer was fined £3.

Routine microscopical examination of blood smears from carcases of animals arriving at the Abattoir and Railway Siding in a dead or dying conditions was carried out. No cases of anthrax occurred.

Glanders.—No eases of this disease have occurred in this country since 1928.

Rabies.—No eases of this disease have occurred in this country since 1922.

Sheep Scab.—No cases occurred in Blackburn, but the surrounding districts of Laneashire and the West Riding were intensively combed. There were 249 outbreaks in Great Britain.

Parasitic Mange.—No cases occurred in Blackburn. There were 111 outbreaks in Great Britain, involving 254 animals.

Swine Fever.—The deaths of four pigs were investigated by officials of the Ministry of Agriculture, but Swine Fever was not found.

One carease of a consignment of pigs sent to the Abattoirs was found to be affected with Swine Fever. The carease was cremated at the Audley Destructor and the Abattoirs premises disinfected.

One thousand eight hundred and seventy-three outbreaks were confirmed in Great Britain.

Tuberculosis.—Four cows affected with tuberculosis of the udder; two eases of elinical tuberculosis with eough; and two eases of tuberculous emaeiation were dealt with. On post mortem examination they were all classed as advanced.

POULTRY DISEASES.

The following extracts are taken from a Memorandum issued by the Ministry of Agriculture and Fisheries.

Under the Diseases of Animals Act, 1935, the Minister of Agriculture and Fisherics had powers conferred on him for the control of contagious diseases of Poultry in Great Britain.

In determining the nature of the action to be taken, it was necessary to take into consideration the practical effect on the industry of compulsory measures by way of notification entailing veterinary examination and consequential restrictions on the movement of birds from infected premises and areas.

In view of the prevalence among poultry stocks of certain diseases such as fowl pox, bacillary white diarrhea, fowl typhoid, tuberculosis, and of coccidiosis, and the other parasitic infestations, and also, to a less extent, of fowl cholera and contagious bronchitis (laryngo-tracheitis), any attempts at compulsory measures would unduly interfere with the normal business of poultry keepers.

These diseases will, therefore, not be made compulsorily notifiable, nor is such action considered necessary to secure the control of the diseases mentioned in view of the voluntary methods now available. These diseases will, consequently be dealt with as at present, by the issue of advisory leaflets, and through the work of existing educational institutions, supplemented, where necessary, by enquiries and advice by the Veterinary Inspectors of the Ministry.

Fowl Pox, Fowl Typhoid, Bacillary White Diarrhaa.—Vaeeines are available for fowl pox and fowl typhoid, and a reliable blood test has been established for fowl typhoid and for baeillary white diarrhaa.

Avian Tuberculosis.—Measures of eontrol are also available for this disease, including the use of the tuberculin test for diagnosis.

Fowl Cholera.—Any eases of Fowl Cholera in England and Wales which eome to the knowledge of the Ministry are notified to the Veterinary Investigation Officers, who advise the owners.

Contagious Bronchitis (Laryngo-tracheitis).—A number of independent and widely seattered outbreaks of this disease have been diseovered in England since the beginning of 1935. Where eases of the disease are brought to the notice of the Ministry it is proposed to follow the same procedure as for fowl cholera.

Having regard to the conditions under which the poultry industry is carried on at the present time in Great Britain, legislative action is directed to three main purposes, namely:

(1) Provision for dealing with the serious exotic diseases which, if allowed to spread, might have disastrous consequences to the industry. The only diseases at present coming within this eategory are those included in the term fowl pest (includes fowl plague and Newcastle disease). The disease is being made compulsorily notifiable by the Fowl Pest Order of 1936.

(2) The control of the importation of live poultry, and of eggs intended for hatching, to prevent the introduction of fowl pest, and also of contagious bronchitis and the virulent forms of fowl cholera.

An order with this object in view has been made, entitled The Poultry and Hatching Eggs (Importation) Order of 1936.

(3) The prevention, as far as may be practicable without unduly interfering with the poultry trade, of the spread of infection at markets, and through the agency of poultry receptacles. It is not considered a practicable proposition effectively to prohibit the exposure of diseased poultry at markets partly on account of the administrative difficulties involved, and partly because of the objection of the poultry industry as a whole to official interference in the case of the commonly existing poultry diseases.

Action is therefore being limited to the compulsory cleansing and disinfection after each occasion of use of market pens and receptacles used for poultry. These requirements are imposed by the Poultry Markets and Receptacles (Disinfection) Order of 1936.

Tuberculosis in Poultry.—The losses in the poultry industry from this disease must be enormous. The Ministry of Agriculture have not made it a seheduled disease, but they have issued advice in pamphlets, and the disease can be detected with Tuberculin as in eattle.

THE WARBLE FLY AND CATTLE.

The warble fly attacks eattle and the larvæ eause considerable damage to the hides. The annual loss from damaged hides is put at about £500,000, and there is always a considerable area on the carcase around each larva which has to be trimmed away. The flies lay their eggs from May to August. They are laid ehiefly on the legs of the eattle. In four or five days the maggets are hatched and bore their way through the skin, and after wandering through the system they reach the walls of the gullet, whence, after a while, they continue their wandering, and begin to appear under the skin on the back of the animal, sometimes as early as November and December, but much more frequently from January onwards. Here they grow and lie in small swellings, feed on the tissues, and breathe through the holes which they pierce through the hide. The larva later works itself out and falls to the ground, and in about six weeks the fly emerges. It has been found effective to dress the skins of the affected eattle with certain dressings monthly, from March to June. The Ministry of Agriculture have, therefore, issued The Warble Fly (Dressing of Cattle) Order of 1936, which makes it compulsory to dress infected cattle with a dressing which eonforms to a specification laid down,

Diseases of Animals (Importation of Therapeutic Substances) Order of 1936.

—This Order controls the landing of certain therapeutic substances for Veterinary use. The landing in Great Britain from any other country of contagious abortion vaccine, live or dead, may be licensed under conditions which the Minister considers necessary to prevent the introduction or spread of disease.

CATTLE MARKET.

The approximate number of animals exposed for sale was:—

	TA	B	L	E	2	1	
--	----	---	---	---	---	---	--

Year	Cattle.	Sheep.	Calves.	Pigs.	Horses	Asses.
1936	3470	2512	2844	1142	•••	
1935	3242	1622	2713	724	83	•••
1934	3407	2375	1478	327	7	
1933	3 55 3	2975	1276	512	9	
1932	4541	5558	1721	781	34	•••
1931	4885	6260	2183	1244	11	•••
1930	6965	8869	2037	57 3	17	
1929	6947	9552	2291	966	19	•••
1928	6432	5655	2041	1045	19	•••
1927	9960	9922	2675	1333	•••	21
1926	8092	7410	2285	930	20	•••
1925	7171	6962	2346	486	23	•••
1924	5609	5608	3493	620	24	•••
1923	7716	10026	3040	721	35	•••

MEAT INSPECTION.

The disease which causes most anxiety to the members of the Meat Industry is tuberculosis. It is constantly being revealed in animals which have been bought as healthy, with consequent loss, which is not insured against, and which is unsuspected.

The number of susceptible animals (cattle, ealves, pigs) affected with tuberculosis during 1936 was 987, or 5.71%.

Corresponding percentages were: 1935, 4.98%; 1934, 4.1%; 1933, 3.1%; 1932, 3.35%; 1931, 3.43%; 1930, 2.38%; 1929, 2.22%; 1928, 2.9%; 1927, 2.079%; 1926, 2.15%; 1925, 1.83%; 1924, 1.87%.

Of 941 eows slaughtered, 213, or $22 \cdot 63\%$, were found to be affected with tuberculosis in some degree.

Of 433 heifers, 20, or $4 \cdot 6\%$, were affected.

Of 1,676 bulls, 128, or 7.6%, were affected.

Of 4,883 bullocks, 54, or $1 \cdot 1\%$, were affected.

Out of 2,000 calves none were found to be affected with tuberculosis.

Of 7,350 pigs slaughtered, 572, or $7 \cdot 7\%$, were affected. The percentage for pigs in 1935 was $7 \cdot 7$; in 1934, $5 \cdot 6\%$; in 1933, $2 \cdot 5\%$.

The number of carcases in which the disease was so advanced as to necessitate total condemnation was 115, compared with 129 in 1935; 89 in 1934; 80 in 1933; 84 in 1932; 90 in 1931; 68 in 1930; 84 in 1929; 111 in 1928; 107 in 1927; 107 in 1926; 69 in 1925; and 85 in 1924.

In 1936, 77 carcases of cattle were totally condemned as being unfit for human food, and of these, 71 were affected with tuberculosis.

There was a further slight improvement with regard to fluke infestation of livers. The number of livers condemned was 4,718, compared with: 4,808 in 1935; 6,195 in 1934; 7,741 in 1933; 9,019 in 1932; 6,579 in 1931; 5,247 in 1930; 6,249 in 1929; 6,042 in 1928; and 3,836 in 1927.

Regular visits were made during the year to the one private slaughterhouse in the Borough; to butchers and other meat shops; to food preparing premises; to the wholesale and retail fish markets; and to the meat market.

There was a decline in the number of animals slaughtered at the Public Abattoirs. There is a growing tendency for retail meat purveyors to go to Liverpool to buy their meat instead of slaughtering at the Abattoirs, or buying from the wholesalers there; the old type of butcher, who knew the live animal, is apparently dying out and giving place to the shop-keeper; but this is not good for Blackburn.

Every endeavour is being made to bring new industries to Blackburn, and our own traders are allowing an old industry, which is of vital importance, to die out.

Cattle Industry (Emergency Provisions) Act.—The Public Abattoir is approved as a dead weight centre for the slaughter of animals on a dead weight basis for subsidy under the above Act. Your Veterinary Officer is the Certifying Officer, with Mr. Goodman the assistant meat inspector as Deputy.

During the year 1936, 233 animals were examined and passed for subsidy.

FISH.

Blackburn is a very important centre for fish supplies; the amount offered for sale in the Borough varying, according to the season, from 60 to 80 tons weekly. If one excludes Liverpool, Manchester and Flectwood, this probably puts Blackburn at the head of other Lancashire towns.

Supplies are drawn ehiefly from Fleetwood, Milford Haven, Swansea, Hull and Aberdeen, and includes wet and dry fish and shell fish.

A large proportion of the fish arriving in Blackburn is sold wholesale, to be retailed in towns and other areas surrounding.

The wholesale fish siding is attended most days by an Inspector, and samples of shell-fish are taken at frequent intervals. Since the war supplies of shell-fish, mainly mussels and eoekles, have been gradually curtailed, chiefly as the result of adverse bacteriological reports. Mussels are now being received only from shell-fish purification centres at Lytham and Conway. At these centres cleaning tanks have been creeted which makes the mussels treated safe for human consumption. Mussels treated in this way have been on sale in Blackburn since September, 1935, and more could be sold if deliveries could be guaranteed, whereas tides, rough weather, frost, etc., have a definite bearing upon present supplies.

TABLE 22.

Number of Animals Slaughtered at the Public Abattoir.

1936.	Beasts	Sheep	Calves	Pigs	Goats	Total
January	 906	5899	197	1012	• •	8014
February	 700	4519	136	708		6063
March	 617	4083	197	581		5478
April	 654	4302	166	524		5646
Мау	 718	5575	104	45 5		6852
fune	 501	4979	79	258		5817
uly	 605	6016	129	274		7024
August	 540	5160	131	282		6113
September	 549	5147	182	370	1	6248
October	 779	5904	274	985		7942
November	 696	4708	198	747		6349
December	 668	4246	207	1154		6275
TOTAL	 7933	60538	2000	7350		77821

NUMBER OF CARCASES AND PORTIONS OF CARCASES BROUGHT TO THE ABATTOIR.

TABLE 23.

1096			CARCASES.			BEEF					
1936	•	 Beef	Mutton	Pork	Fore Ors.	Hind Qrs.	Buttocks				
Janua ry		 	30	35		•••	•••				
February		 •••	24	19		•••	•••				
March		 •••	24	12			•••				
April		 •••		•••	17	24	•••				
May		 •••		10	31	29	•••				
June		 •••	24	•••	28	28	•••				
July		 •••		•••	29	29	•••				
August		 	24	•••	29	29	•••				
September		 •••	24	5	25	25	•••				
October		 •••		7	27	27	•••				
November		 			26	26	•••				
December		 		•••	20	20	•••				
TOTALS	 3	 	150	88	232	237	•••				

1096	Cas	ES OF		~	T	av.
1936.	Kidneys	Pork	Liver	Lengths of Pork	Legs of Pork	Tins of Meat
January	10			85		
February	8			30		•••
March	8			30	•••	•••
April	8			5	•••	•••
May	10				•••	•••
June		•••		•••	•••	•••
July	10	•••		•••		
August	8			•••		•••
September	8	1		•••		•••
October	10			40	•••	•••
November	8			36		•••
December	8			100	20	
TOTALS	96	•••		326	20	•••

TABLE 24.

ORGANS AND PARTS OF CARCASES EXAMINED, REJECTED AND DESTROYED, FOR DISEASES OTHER THAN

TUBERCULOSIS.

Lbs. of Meat	:	:	:	621	:	:	:	:	:	2246	:	:	:	:	:	:	2867
sli e T	:	:	:	:	:	:	:	i	:	:	÷	:	:	:	:	:	
8Yenbi X	:	:	;	7	:	:	:	42	22	:	:	:	:	:	:	:	65
sənitsətnI	:	:	:	:	;	:	:	23	:	:	:	:	:	:	:	:	2
stebbU	:	:	÷	13	:	:	165	:	:	:	:	:	:	:	:	:	178
Stomachs	:	:	:		16	:	:	:	:	:	:	:	;	:	:	:	17
глөviЛ	4718	185	73	4	18	:	:	205	:	:	:	÷	÷	61	:	÷	5205
Неатів	:	:	:	:	:	:	:	:	:	:	:	83	:	:	:	:	83
Lungs	:	:	:	15	:	:	:	143	:	:	:	:	75	:	:	:	233
врвеН	:	:	:	2	12	œ	:	:	:	:	:	:	:	-	:	:	26
RengnoT	:	:	:	:	:	:	:	:	:	:	- :	:	:	:	:	:	
mgarhqaid	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	1
Disease or Condition	Fluke	Cirrhosis	Angioma	Unsound	Abscesses	Actinomycosis	Mammitis	Parasitic	Nephritis	Bruised	Congested	Pericarditis	Pneumonia	Melanosis	Endocarditis	Fatty Degen'n	T'OTAL

TABLE 25.

DISEASED CARCASES EXAMINED, REJECTED AND DESTROYED FOR DISEASES, ETC. OTHER THAN TUBERCULOSIS.

CARCASES.

	No		
VENÍSON.	DISEASE.		
	No		
GOAT.	DISEASE.		
	No		48
PORK.	DISEASE.	Lymphadenoma Toxaemia Oedcmatous Peritonitis Septic Pneum'a Swine Fever Swine Erysipelas Congested Pyaemia Extensively Bruised Jaundicc Arthritis Arthritis	
	No.		121
VEAL.	Disease.	Immature Joint Ill Congested Oedematous Pneumonia Jaundice Staggers Pyaemia Septicaemia Extensively Bruised Peritonitis Mucoid Degeneration Scour	
	No		149
MUTTON.	DISEASE.	Congested Oedematous Pneumonia Emaciation Pyaemia Asphyxia Arthritis Extensively Bruised Parturition Parasitic Septic Mannmitis Septic Matritis Unsound Mucoid Degeneration Septicaemia	
	No	C1	9
BEEF.	DISEASE.	Congested Osteomyelitis Johnes Disease Extensively Bruised Septic Synovitis	

TABLE 26.

TUBERCULOUS CARCASES EXAMINED AND REJECTED.

			- 4	5										
els	betseleA	22	19	20	21	14	6	11	11	12	53	10	13	185
Totals	bənimaxA	121	108	100	06	63	29	99	1 9	65	113	86	102	1057
Fowl	Rejected	10	11	11	6	4	:	દર	1-	63	t~	7	9	70
85	Rejected	5	せ	ତୀ	00	က	೧೯	83	1	4	oo	1	က	44
Pigs	БепітвхД	74	65	55	20	29	56	23	30	31	55	89	99	572
dec	Rejected		:	÷	:	:	:	÷	:	:	÷	:	÷	:
Sheep	Examined	:	:	:	:	:	:	:	:	:	:	:	:	
ves	hejected		:	:	:	:	:	:	÷	:	:	:	:	:
Calves	bənimex 🗵	:	:	:	÷	:	:	:	:	:	:	:	:	 :
оска	Rejected	ଦୀ	;		- (1	:	:	:	:	1	:	:	9
Bullocks	benimax I	5	5	22	∞	9	7	9	63		ವ	:	4	54
113	hejected	:	:	:	:	:	C1	-	П	:	7	П	:	9
Bulls	bənimax I	6	11	11	S	1	11	14	15	90	17	10	7	128
Heifers	betseleA	:	-	©1	-	ಾ	:	:	:		:	7	:	G
Hei	benimax J	i	_	3	1	7	7	:	:	က	4	7	©1	20
Cows	bətəələA	5	က	Þ	ক্য	ಣ	4	9	01	್ಷ	9	ဗ	4	50
ට ට	репітвхЯ	23	18	15	14	13	19	21	10	20	25	18	17	213
	1936	January	February	March	April	May	June	July	August	September	October	November	December	TOTALS

TABLE 27.

TUBERCULOSIS IN THE ANIMALS SLAUGHTERED.

SES.	so	Parts of Carcas in lbs.		3661	252	3104	260			7577
CARCA		stebbU		10	1	1	1	1	1	10
TED		Testicles		i	-	!		-		
EJEC		Bones			-	1	1			
LY R		регоиз Метргалез	1	₦	1	6.1	1	-	1	9
TIAL		inetU		-	1	1	1			
A PAI	ż	senitsetal		-	i	i	1		93	93
ESS IT	ABDOMEN.	вүөпbiЯ	1	-		1	1		1	
PROC	AB	Spleens	-	-			1		i	1
LAR]		Stomachs		9	1	[~		1	1	13
ERCU		Livers	-	4	1	7	1	1	140	145
Tub		Serous Membranes	1	14	_	12	Ø	1	1	59
THE	Тновах.	Heart and muibrasined		15	?!	13	63		-	32
EXTENT OF THE TUBERCULAR PROCESS IN PARTIALLY REJECTED CARCASES.	Тнс	rgnnZ		129	9	51	16	1	196	398
Ex		sba9H		108	10	1111	41	1	462	732
	рө	Totally Reject	 	20	6	9	9	1	4+	115
	Of which	were Tuber- culous.		213	20	128	54	1	572	987
		Number Slaugh- tered.		941	433	1676	4883	2000	7350	17283
			:	:	÷	:	:	:	:	
	Animal.				:	:	:	:	:	:
	Kind of Animal.			Cows	Heifers	Bulls	Bullocks	Calves	Pigs	TOTALS

TABLE 28.

Fish,	Rabbits,	ETC.,	Examined,	REJECTED	AND	DESTROYED.
-------	----------	-------	-----------	----------	-----	------------

FISH:						
Lobster				1	Potatoes (ewt.)	1
Bags of Shrimp	s			5	,, (skips)	15
Tins	•••	•••		31	Boxes of Peaches	11
Bags			• • •	421	Tins of Fruit	9
Boxes		•••		$116\frac{1}{2}$	Carrots (cwts.)	$37\frac{1}{2}$
Pounds				6643	Chips of Plums	137
Rabbits				455	Barrels of Apples	13
Tins of Meat				29		
Boxes of Pears				24		
Crates of Bananas			•••	7		
Chips of Raspberries	3	•••		18		
Sieves of Damsons		•••	•••	4		
Boxes of Apricots				9		

NUMBER OF VISITS TO INSPECT FOOD.

Fish Shops		 	 		912
Provision Shops		 	 	 	1030
Butchers' Shops		 	 	 	1918
Private Slaughterho	ouses	 	 	 	40
Meat Market		 	 	 	192
Fish Market		 	 	 	274
Railway Station		 	 	 	273
					4639

CARCASES, ETC., SENT FOR UTILIZATION.

			Tons.	Cuts.	Qrs.
January		 	6	13	0
February		 	7	17	0
March		 	7	4	0
April		 	.1	19	0
May		 	6	4	2
June		 	3	17	0
July		 	6	17	2
August		 	3	3	0
September		 	3	14	0
October		 	8	3	0
November		 	5	9	0
December		 	6	3	0
			_		-
TOTAL	• •	 • •	70	4	0

E. J. BURNDRED,

Veterinary and Chief Meat Inspector.

THE FOOD AND DRUGS (ADULTERATION) ACT, 1928.

The Public Analyst is Professor W. H. Roberts, M.Sc., F.I.C. Samples taken under the above Aets are submitted to him for examination at the Public Health Laboratory, Liverpool.

The number of samples examined during 1936 was 457. Twenty, or $4 \cdot 37\%$, of the total proved, on examination, to be adulterated, or not up to standard.

TABLE 29. THE FOOD & DRUGS (ADULTERATION) ACT, 1928.

	Samples Taken		Samples	Genuine.	Samples Adulterated		
	Formal	informal	Formal	Informal	Formal	Informal	
Milk	50	240	45	230	5	10	
Butter	_	4	_	4	_	_	
Margarine	-	$egin{array}{cccc} 6 & & & \\ 1 & & 3 & & \\ \end{array}$	-	$\frac{6}{3}$	_	-	
Tea	-	3		ა 3	_	_	
Cocoa	-	4	_	4	-	_	
Cheese	_	3	_	3	_	-	
Barley	-	1	-	1	-	-	
Rice	_	$\frac{3}{6}$	_	$\frac{3}{6}$	~		
Jam	_	$\frac{0}{2}$	_	2	-	-	
Custard Powder	_	$\overline{2}$	_	$\bar{2}$	_	_	
Egg Substitute Powder	-	1	- 1	1	-	-	
Condensed Milk	-	15	-	13	-	2	
Tinned Peaches	-	4	-	$\frac{4}{1}$	-	-	
Mixed Spice	_	4		4	_	_	
Pepper	_	î	_	i	_	_	
Ice Cream	-	24	_	24	-	-	
Vinegar	-	6	-	5	- 1	1	
Curry		1	-	1	-	-	
Salad CreamLemon Curd	_	1	_	1	_	-	
Butter Beans		2	-	$\frac{1}{2}$	_	_	
Dried Mint	-	ī	-	-	_	1	
Cephos	-	1	-	1	_	-	
Tinned Cream	-	$\frac{3}{3}$	-	3	-	-	
" Salmon	_	ა 1		$\frac{3}{1}$	-	-	
Tinned Grape Fruit	_	$\frac{1}{2}$		$\frac{1}{2}$	_	_	
Barlova	_	1	_	ī	_	-	
Oatmeal	- 1	$\frac{2}{1}$	-	2	-	-	
Tinned Peas	-	4	-	4	-	-	
Crab and Lobster Paste Treacle	_	$\frac{1}{2}$		$\frac{1}{2}$	~	-	
Jelly	_	$\frac{1}{2}$		$\frac{2}{2}$	_	_	
Marmalade	-	1	_	1	_	_	
Friarbake	-	2	-	2	-	-	
Ground AlmondsBlanc Mange	- 1	1		1	-	-	
Sugar	_	1	_	1	_	-	
Lard	_	$\frac{1}{2}$	_	$\frac{1}{2}$		_	
Honey	- 1	1	-	1	- 1	-	
Sage	-	2	-	2	-	-	
SauceLemon Cheese	-	$\frac{2}{3}$	- 1	2	-	-	
Yeast	_	1	_	3 1	- 8	-	
Sausages	_	$\bar{3}$	_	$\frac{1}{2}$	_]	1	
Cornflour	-	3	- 1	3	_	_	
Mustard	-	1	-	1	-	-	
Spice	~	1	-	1	-	-	
Ground Rice	_	1	_	1		_	
Camphorated Oil	-	1	_	î	_	_	
Dessicated Cocoanut		2	-	2	- 1	-	
Olive Oil	-	$\frac{3}{1}$	-	3	-	-	
Oats		$\frac{1}{2}$	_	$\frac{1}{2}$	-		
Bisto	- 1	$\frac{2}{2}$	_	$\frac{2}{2}$	_ !		
Lemon Syrup		1	-	1	_	-	
Chocolate	-	1	-	1	-	-	
Demerara Sugar Epsom Salts	_	1	-	1	-	~	
Turkey and Tongue Paste	_	1	_	1	-	-	
Meat and Fish Paste	-	î	_	ì		_	
Carbonate of Soda	-	1	-	l	_	_	
Castor Sugar	- 1	1	-	1	-	-	
Icing Sugar	-	-	-	-	-	-	
Tomas		107					
Total	50	407	45	392	5	15	

TABLE 30.

SAMPLES.
ACTION TAKEN IN REGARD TO ADULTERATED S
To
N REGARD
N TAKEN IN RE
-Action
, 1928.
ACT,
3S (ADULTERATION) ACT, 1928.—Action TA
LTE
ADU
DRUGS (
AND
THE FOOD

Action Taken.	Dismissed on payment of costs. Further sample taken and found genuine. Ditto. Pined 10s. and costs. Further sample taken (see Sample 33). Fined £2 and special costs. Formal sample taken and found genuine. Ditto. Formal sample taken (see sample 177). Investigation made at farm. Cause remedied. Fined 20s. and costs. Formal sample taken and found genuine. Ditto. Ditto.	Warning letter sent. Ditto. Ditto. Ditto. Ditto.
		than t
Amount of Adulteration.	Contained 3% added water	Deficient in milk solids Slightly deficient in mi milk fat Contained 2.3% sand Deficient in meat to ex Deficient in acetie acid
Informal	Yes	Yes Yes Yes Yes Yes
Formal	Yes Yes Yes Yes Yes Yes Yes	: : : : :
lo redmuN elqmeS	386 388 388 407 425 452 288 33 33 1177 1177 225 225 225 288	433 462 19 370 306
TedmuN belal'lubA	15	
Митрег Genuine	275	ଓ ୮ : ଶ୍ୟ
Yesquary Analysed		6 3 1 8 7
Articles Purchased.	Milk	Condensed Full Cream Milk (unsw'd) Condensed Mach. Skm'd. Milk (sweetd) Dried Mint Sausages Vinegar

THE PUBLIC HEALTH (PRESERVATIVE, &C. IN FOOD) REGULATIONS, 1925 & 1927.

	to . səlq bənir	səlq. əən		Where fact is	Where examination of puraction of puractics indicated by a x.	on of pres	ervative Il results	has been are expres	Where examination of preservative has been made and none found the fact is indicated by a x. All results are expressed in parts per million.	none four ts per mill	nd the ion.
DESCRIPTION OF SAMPLE.		m _B S	N Conta	Sulphur Dioxide	Benzoic Acid	Borates	Salicylic Acid	H'drogen Peroxide	H'drogen Formalde- Peroxide hyde	Sodium Fluorides Nitrite	Sodium Nitrite
Milk	290	290				×	1	1	ı		1
Tinned Cream	က	က			1	×	1	×	x	1	I
Butter	4	7	1	1	i	×	l	1	1	×	I
Margarine	9	9	1	1	-	×	!	1	į	×	1
Jam	7	5	63	30/35	×	×	1	1	1	ı	1
Condensed Milk	15	15]	1	I	×	i		1	ı	I
Custard Powder	≎1	1	C1	80/20	1	-			i	1	I
Jelly	1	7	ł	×	1	}	l	i	i	1	1
Marmalade	1	_	1	×	×	×	×	į	1	1	1
Salad Cream	-	1		×	×	×	×	1			1
Sugar	33	2	_	50	l		1	1		1	I
Cornflour	က	_	c1	40	1		I		1	1	I
Lemon Cheese	က	က		×	×	×	×		1	1	ı
Syrup	1	7		×	1		I	İ		1	ł
Sauce	23	23	1	×	×	×	×	1	l	1	}
Ice Cream	참	24		×	1	×	I	1		1	1
Barley	-	_		×	1	1	1		1		I
Meat and Fish Paste	1	-	1	×	J	×	I	1	I		I
Lemon Curd	-	1		×	×	×	×		ı		I
Crab and Lobster Paste	-	1	1	×	1	×	I	l	1	1	I
Sago	1	1	1	×	1	1	İ	1	1	1	1
Honey	-	-	1	×	1	1	1	1	1	1	1
Blanc Mange	7	1	I	×	ı	1	1	1	I		I
Sausage	ಞ	က		×		×	l	1	1	1	t -
Treacle	2	ଦା		×	 -	1	1	1	I	1	1
Pepper	-	_	1	×	1	1	I		1	1	
Turkey and Tongue Paste	1	1	1	×	×	1		1		1	I
Mincemeat	-	1	1	×	х	×	×			1	

FERTILISERS AND FEEDING STUFFS ACT, 1926.

Eleven samples of feeding stuffs and fertilisers were examined by the Analyst during the year. Of these, nine conformed with the statutory statement and two failed to do so. The vendors of the samples were informed of the difference between the actual composition and the composition as defined in the statutory statement, and the deficiency or excess was pointed out, and in the case of the formal samples the Ministry of Agriculture were informed.

The appended Table gives particulars of work done under the Aet :--

TABLE 32.

ARTICLE.	Formal	Informal	According to Statutory Statement	Not According to Statutory Statement	Action Taken.
Laying Meal	-	1	1	-	•••
Pig Meal	-	1	1	_	
Sangral	-	1	-	1	Letter sent.
B.P. General Fertiliser	_	1	-	1	Letter sent.
Sussex Ground Oats	-	1	1	-	
Superfine Weating	-	2	2		
Flaked Maize		1	1	-	
Bran	-	2	2	-	
Sulphate of Potash	_	1	1		

MERCHANDISE MARKS ACT, 1926.

Every endeavour has been made to give publicity to the provisions of the above Act.

Three thousand, eight hundred and forty-four visits were made to premises, and personal warnings given by the Inspector in 241 instances.

ICE CREAM.

There are 135 iee-eream preparing premises in Blackburn, to which 1,364 visits were paid during the year. Cleansing and whitewashing has been carried out at all the premises, and in two instances new premises have been obtained and the sanitary conditions brought up-to-date. One of these has also installed completely new apparatus.

It has been pointed out previously that there is no standard in this country for ice cream.

This applies not only to the constituents, but also to the purity of the product.

The lack of control is also evident from the variety of premises which are used for its manufacture.

Twenty-four samples were taken for chemical analysis, and 24 samples were taken for bacteriological examination.

The fat content ranged from $13 \cdot 9\%$, a true ice cream, to $1 \cdot 1\%$, which is not of much food value.

Bacterial counts varied from 2000 bacteria per e.e. with B. Coli absent in 1 e.e., to millions of bacteria per e.e., with B. Coli present in 1/1000 e.e.

Every endeavour is being made to provide premises, self-contained, and separate from living premises, on lines similar to those adopted for dairies.

During the year two such premises were provided, which are admirable for their purpose, but, until registration is required and enforced, there will always be premises used which, to say the least, are undesirable.

HANDLING OF FOODSTUFFS.

This section would be incomplete were not references made to the dangerous manner in which certain articles of food, notably confectionery and sweets, are sometimes handed by the retailer to the purchaser. I refer to the habit, common to many, of moistening the forefinger and thumb with the tongue before picking up the paper bag, preparatory to its being blown open with a forced expiration of droplet-laden breath. This process completed, the foodstuff is then transferred to its contaminated container by the sputuminfected hand of the yendor.

In the majority of cases food-stuffs are prepared under satisfactory and hygienic conditions, safeguards which, in many instances, are nullified by subsequent dirty handling.

The purchaser, by refusing to accept articles so handled, would do much to discourage this disgusting practice.

PART IV.

Prevalence of,

and

Control over,
Infectious Disease.

TABLE 33.

CASES OF INFECTIOUS DISEASE NOTIFIED DURING THE YEAR 1936.

		2		
	ii sil	Total Deatl Buoroug	1 61 1 61	1116 4
		essas latoT ot roiterogroD	108 251 100 100 57 4	540
	-	St. Andrew	1 1 2 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2	1 4 1 4
		St. Mark's	0.01211114116	15
		St. Luke's	400 10 10 10	37
ų		Park	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	17
eac	.8	St. Thomas	30, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1	17
id in ty.	Stw	St. Matther		38
notified Locality.		St. Mary's	0 0 1 1 40 - 60	10 10 33
s no Lo		St. Peter's	1.1 21 4 1 1 1 1 1 4 4 4 1 1 1 1	- 7
саве		St. Paul's	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8 - 1 - 64 - 1
Total cases notified in each Locality.		St. Silas,	1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9
T		St. John's		1 6
	8,	St. Michael		1 10 -
		Trinity	47.6 1141 84.6 11	22 11 3 - 3 54
	S, U	St. Stepher	1 23 1 1	
		bas 20	8 8 6 6	$\frac{1}{18}$
		29 of 32	16	12 1
		dd of de		24 1 69 3
0		20 to 35	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25 22 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Cases notified in whole District.	Years	15 to 20 20 to 35	0 H F H R 4 4 H	- 4 2 - 36 13
in v	l i l	10 10 10		8 6
otified in District.	rges-	2 to 10	1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	8
noti D	At A	g o ₁ 5	1 1 2 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 2 2 2
8981	7	3 to 4	1 5 6 1 1 1 1 7 7 7 7 7 7	- 1
ప		2 to 3		1
		I to 2		- 9 g + 1 - 9 g + 4 l
		I rebnU	1	1 2 2
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				:::: :
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	IABL	SASE	luddin Croy Croy sxia sxia. Men. sonad bercu Tub Tub ethan	
	Notifiable	DISEASE	Small-pox Cholera	:: :: ::
	Z	. ,	Small-pox Cholera Cholera Diphtheria (in Membranou: Erysipelas Scarlet Fever Typhus Fever Enteric Fever Puerperal Fev Puerperal Pyr Cerebro-spinal Ophthalmia N Pulmonary Tı	Dysemery Malaria Pneumonia Diarrhœa Totals
			Small-pc Cholera Diphthe Memb Erysipel Scarlet Typhus Enteric Puerper Cerebro Ophthal Pulmon	Malaria Pneumoni Diarrhæa
			Sm Dip N Dip N Du Pue Oppl Pul Pul Pul	Dysentery Malaria Pneumonia ** Diarrhæa Torats

* Notifiable from July 1st to September 30th, 1936, only.

TABLE 34.

INFECTIOUS DISEASES.

AGE INCIDENCE OF CASES NOTIFIED.

<u>r</u> 1	00	52	28	:	9	10	1~	15	50	15	¢1	•	39
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M	61	:	_01	T		:	:	15	15	-	:	:	36
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M			:	:	:	:				:			73
ഥ	1	1		•	:	:			:	1		1	00
M		:	:	:	:	:	ભ	4	:		:	:	[-
	Scarlet Fever	Diphtheria	Erysipelas	Enteric Fever	Puerperal Fever	Puerperal Pyrexia	Ophthalmia Neonatorum	Pneumonia Ac. Primary	Tuberculosis—Lungs	do. Other Forms.	Encephalitis Lethargica	Diarrhœa	Totals
	F M F M F M F M F M F M F M F M F M F M	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F	M F M F M F M F M F M F M F M F M F M F

TABLE 35.

Infectious Diseases.

CASE INCIDENCE PER 1000 OF THE POPULATION.

s'werbnA .tZ	2.25	89.0	0.09	00.0	0.00	0.19	00.00	0.39	0.29	0.39	00.0	00.0
St. Mark's	2.22	0.95	0.21	00.00	0.00	0.10	0.10	1.59	0 · 53	0.42	00.00	00.0
St. Luke's	1.44	0.58	0.28	0.00	00.0	0.43	0.14	0.72	1.29	0.43	0.00	00.00
ЯтвЧ	1.98	1.16	0.35	0.35	0.00	0.11	0.11	1.98	1.05	0.35	0.23	00.00
St. Thomas	3.66	1.03	0.65	00.00	60.0	0.18	00.0	1.59	0.84	0.18	00 · 0	00.00
St. Matthew's	2.72	0.37	0.12	00.0	00.0	0.24	00.0	0.49	0.61	0.12	00.0	00.0
St. Mary's	1.22	1.02	00.0	00.0	00.0	0 - 50	00.0	2.05	1.23	0 · 82	00.0	0.20
St. Peter's	89.0	2.04	00.0	00.0	00.00	00.0	00.00	1.19	1.36	0.34	00.00	0.00
St. Paul's	1.89	1.65	0.23	00.0	00.0	00.00	0.11	0.47	1.18	0.23	00.00	0.00
St. Silas	3.60	82.0	0.23	0.11	0.00	0.11	00.0	0.92	$1 \cdot 27$	0.23	00.0	00.0
St. John's	1.95	0.48	0.32	0.16	0.00	0.00	00.0	0.97	0.48	0.32	0.00	0.16
st. Michael's	9.70	0.61	0.24	0.00	0.12	0.00	0.00	1.23	1.47	0.49	00.0	00.0
Trinity	3.42	1.31	0.13	00.0	00.0	00.0	0.13	1.45	0.39	0.13	00.0	00.0
St. Stephen's	4.95	1.12	99.0	80.0	0.08	0.32	0.00	1.76	1.04	0.23	80.0	0.23
	Scarlet Fever	Diphtheria	Erysipelas	Enteric Fever	Puerperal Fever	Puerperal Pyrexia	Ophthalmia Neonatorum	Acute Primary Pneumonia	Tuberculosis-Lungs	do. Other Forms	Encephalitis Lethargica	Diarrhœa

TABLE 36.

SHEWING NUMBER OF CASES OF INFECTIOUS DISEASES NOTIFIED FROM 1917 TO 1936.

9		્લ	2	7	9	ကျ	_		ಉ		9	[-	20	-	ಣ	೧೯	-	0	5		- 1		က
1936	:				9			:				37		:			:	140		:	1		783
1935	:	163	44	364	ಞ ₁	<u>ထ</u>	12	:	:	_		31	C.1	:	7	:	:	181	1-	:			924
1928 1929 1930 1931 1932 1933 1934 1935	22		54			00 6	13	:	01			21	00	:	7	:		163	1	280	1		749 1122 1424
1933	:	109	58	549		9	10	:	Ω	4	84	28	12	:	ಬ	:	:	253	_	:			1122
1932	:	95	42	232	6	4.6	J.S.	:	_	7	116	33	12	:	10	:	621	176	ಣ	:			
1931	:				ci i			:	:	:	160	50	1-	:	9	_	:	290	ಣ	:	-		721
1930	:				L- 1			:	7	:	153	38	<u>2</u>	:	2	2		161	5	:	-		950
1929	34	197	57	761	9	ဘပ	0.7	:	:	2					5	:	:	305	9	257	-		751 1823
1928	10	124	42	121	7	010	D)	:	:	:	106	36	17	:	7	7	:	222	_	44	-		751
	5	66	99	125	टा I	- 0	6T	:	:	:	111	40	19	:	œ	7	:	256	7	:	-		759
1925 1926 1927	6	8	44	218	o ;	= =	II	:	:	:	132	44	19	:	6,	7	Т	149	12	:	1		750
1925	÷	67	39	304	<u>ा</u>	7	:	:	:	:	169	71	255	:	5	:	7	242	21	:	1		959
1924	:	62	45	70	က	0	:	:	:	=	150	63	17	:	32	:	_	358	Þ	:			816
1922 1923 1924	:	35	52	216	က်	12	:	:	:		176	102	15	:	10	:	_	349	<u>01</u>	:	1		974
1922	:				ا مد		:	:	:	:	145	20	22	:	_	:	Ç.	275	_	:	1		865
1921	:	45	47	211	0	15	:	:	:	က	150	71	24	:	2	-	77	176	31	:	1		782
1920	:	69	59	181	200	12	:	:	:		8 8 8	38	22	:	G.	7	18	158	:	:	1		654
1917 1918 1919 1920 1921	:	30	38	136	ر د	2	:	:	3/	Ť		47			20	ಣ	61	114	:	:	1		689
1918	:	57	52	150	<u>د ب</u>	2	:	:	_	:	176	54	15	1560	:	:	:	:	:	:	1		2083
1917	:	50	40	96	<u> </u>	· ·	:	:	:	:	131	47	1-	1938	:	:	:	:	:	:			2325 2083
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SE.		p)	:	:	:		wix		Meningitis	:	perculosis	Tuberculosis	onatorum	:	ethargica	:	:	:	:	:			:
DISEASE.	Smallpox Dishtharia (including Mem-	branous Croup)	Erysipelas	Scarlet Fever	Enteric Fever	Puerperal Fever	Luerperal Fyrexia	Typhus Fever	Cerebro-Spinal Meningitis	Poliomyelitis	Pulmonary Tuberculosis	Other forms of Tuberculosis	Ophthalmia Neonatorum	*Measles	Encephalitis Lethargica	Dysentery	Malaria	Pneumonia	†Diarrhœa	*Chicken-Pox		1	TOTALS

* No longer notifiable. † Notifiable from July 1st to October 31st.

TABLE 37.

NOTIFICATION OF INFECTIOUS DISEASES.

1		Smoon S	. 80 00 00 1 + 10 00 00 1 +	43 16 4	13	4,000	68
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ion	16	rooms 4—5	6	2 : : :	टा टा च		367
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Housing		E—I	:= 20 : : :	4:		01 :	27
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	1936	č—ţ zmoon	3 555 49 1 55 49 1 2 1 123 1 2 1 125 5 *	18	44 20 73	11 16 27 4	64
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94		1932	000000000000000000000000000000000000000	0.72 0.00 0.00 0.06	$0.35 \\ 0.29 \\ 0.64$	0.05 0.09 0.15 0.06	1.74
Death Rate per 1000 of Pounlation	Ì	1933			40 29 69	.03 .09 .09	2.14
er l			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.12 0.04 0.00 0.04	000	0000	1
Rate per 1		1934	.03 .04 .00 .00	.03 .00 .03	$0.34 \\ 0.20 \\ 0.55$.06 .09 .09	.89
Rat	<u>.</u> <u> </u>		00000	<u>0000</u>		0000	
ta ta	1	1935	00000	0.19 0.03 0.00	$0.39 \\ 0.27 \\ 0.66$	0.05 0.13 0.05	2.36
De		1936	0.00 0.00 0.03 0.00 0.0080.04 0.01 0.19 0.03 0.0080.00 0.00 0.01 0.01 0.01 0.00 0.00 0.00		22 22 68		1
		!	000000	1.00 0.00 0.00 0.04	000	0.03 0.04 0.07 0.03	1 · 87
		1932	00 89 77 07 03	.44 .34 .09 .08	.54 .40 .94	.11 .15 .27 .02	60.9
90.	<u> </u>		8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000-	000	0000	1
e pe		1933	0.00 0.89 0.00 0.00 0.04 0.08	2.08 0.47 0.09 0.04	$0.45 \\ 0.24 \\ 0.69$	0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 · 0 ·	9.19
Incidence Rate per 1000 of Population	<u>.</u>	1934				0.10 0.13 0.06 0.09 0.17 0.23 0.008 0.00	1 .
nce f Pc			0.18 0.75 0.02 0.06 0.10	1.36 0.45 0.06 0.03	$0.46 \\ 0.28 \\ 0.74$		9.51
ide 00		1935	3.07 1.37 0.02 0.05 0.10	$ \begin{array}{c} 1.53 \\ 0.37 \\ 0.01 \\ 0.06 \end{array} $	0.49 0.38 0.87	0.19 0.06 0.25 0.06	7 · 80
Inc			<u></u>				1 6
		1936	0.00 2.68 20.96 10.05 0.14	20.0	53 0 · 57 26 0 · 33 79 0 · 90	4 0 · 14 5 0 · 17 9 0 · 31 4 0 · 04	9 . 9
sq	al Deat	lo'T	::818:	$\begin{array}{c} 116 & 1 \cdot 20 \\ \vdots & 0 \cdot 27 \\ \vdots & 0 \cdot 04 \\ 5 & 0 \cdot 02 \end{array}$	53 26 79	47004	777 537 218 6 · 69
	[endsor	ī	. 008	-[0 m :	00 57 57	4 :4 :	372
	cases n	1	311 251 112 108 6 5 3 0 17	140 32 3	67 100 39 57 106 157	17 20 37 5	77
pagijo		LETOT					
	Disease		Small Pox Scarlet Fever Diphtheria Enteric Fever Puerperal Fever Puerperal Porexia Puerperal Pyrexia Pneumonia	Acute Frimary and Acute Influenzal Erysipelas Ophthalmia Neonatorum Encephalitis Lethargica	Males Females Total	Males	TOTAL 777 537 218 6.69
			Small Scarle Diphtl Enteri Puerp Puerp	Acute Pr Acute In Erysipelas Ophthalmi Encephalit	Tubercu Males Femal Total	Males . Females . Total . Diarrhœa.	T

† 1 Case of Encephalitis Lethargica from outside the Borough. ‡ 1 Case of Ophthalmia Neonatorum from outside the Borough. 3 Cases of Puerperal Pyrexia from outside the Borough.

TABLE 38.

NOTIFICATION OF INFECTIOUS DISEASES.—ROOM SPACE IN RELATION TO INFECTIOUS DISEASES INCIDENCE.

	ng .:	f	lnloiT	00	4		
	Remaining at Home.	No. of sons per		3 43	:	-:	3 47
	ma H	No. sons	1-5	33	Ç1		9 35
2.5	Re	per	Less than one		64	:	
1932	1 40	per	IntoT	189	91	0	289
	ttea	No. of some pe	More than two	82 189	39	ಣ	167
	Admitted to Remaining Hospital. at Home.	No. of No. of No. of room room	5-1		20	9	5 160 124 289
	AC H	pe	-	3.104	67		0 1 i
	1 50	- £	Total	61	10	:	5.0
	Remainin at Home.	to da		119	:		
	Ho	No. of	own and work	19	4		00
က္	Re	pers	Tess than one	73	9	:	162
1933	Admitted to Remaining Hospital.	No. of No. of persons per room room	Into'T	130	99	_	530
	Idmitted to Hospital.	No. of sons per	More than two	38			65
	lmi	No.	2-1	15	49 27	:	900
	Aa	per	Tess than one	1 261 141 251 38 430 73 46	23		1 265 165 300 65 530 79 50 129
				1 7	41		1 22
	ng.)er	1010T	1 26		•	126
	Remainin at Home.	of sil	More than two	m	61	_ <u>:</u> -	
	eme H 1	No. of rooms room	<u>-</u>	1			010
1934	2 2	per	puo uvyt ssər	157	63	. : 	159
0.1	Admitted to Remaining Hospital. at Home.	No. of No. of persons per room	Total.	104	86	60	193
	pite	No. of room	More than 2	357	56.14	Ø1	21
	Idmitted the Hospital.	N.	z—1	250	56	_	307
	47) à	уче выпорыя по по по по по по по по по по по по по	13	16	:	35
_			1pto'T	95 119 250 35 404 157 103	Ó	:	103 135 307 51 493 159 105
	ing e.	per		:	•	:	
	uin.	No. of sons per		41			44
	Remaining at Home.	No. of persons per room		54 4		· ·	59 4
1935	<u> </u>		əuo upyş ssə7			•	
16	Admitted to Hospital.	No. of persons per room	Total	92 121 56 269	7 155	ಞ	427
	Idmitted t Hospital.	No. of sons per	Nore than two	56			63
	dm Ho	ersc	<u>5—1</u>	121	81		203
	। प	۱ ۵	ouo upyz sso _T	92	67	¢1	[6]
	bu .	f	Total	09	4		65 161 203 63 427
	ini	No. of sons per	Mere than two	22 60	:	:	
	Remainin at Home.	No. sons room	z—1		61	:	24
1936	B	per	ouo upy ssoy	38	61	-	41
19	d to	of	Total	21 251 38	15 108	Ď	364
	itte	No. of sons per	on upy story	21	15	ಣ	39 364 41
	Admitted to Remaining Hospital. at Home.	No. of No. of persons per room	2-1		45	61	
	प	pa	ouo upų ssor	90 140	48	:	811
			110 41, 000 1	5	4	•	- 133
				:	:	:	
				:	:	:	:
		9				0	
		38		.01		9	4
		Diseas		Fever	ria	Fev	OTAL
		Disease.		et Fever	theria	ric Fev	TOTAL 138 187
		Diseas		Scarlet Fever	Diphtheria	Enteric Fever	Total

SCARLET FEVER.

During 1936, 311 eases of scarlet fever were notified, an incidence of $2 \cdot 68$ cases per 1,000 living. Two hundred and fifty-one cases, or $80 \cdot 7\%$ of those notified, were removed to the Hospital.

The majority of the cases were mild. No deaths occurred during the year.

As in 1935 the heaviest incidence was amongst the 5-15 age group where 199 cases, or $64 \cdot 3\%$ of the total notified, occurred.

Searlet fever anti-toxin is supplied free of charge to practitioners desirous of passively immunising immediate contacts of the disease.

Although no definite scheme exists for active immunisation against searlet fever, 30 persons were Dick-tested during the year.

TABLE 39.
SCARLET FEVER.

	Cases Notified	Attack Rate		Per- centage	1	Cases Adm o Hospita	
Year.	in Black- burn.	per 100,000 of popu- lation.	No. of Deaths.	of Deaths to cases notified.	No. Admitted	No. of Deaths.	Percentage of Deaths to cases treated.
1907	544	479.0	21	3.86	381	12	3 · 10
1908	595	439.8	20	$3 \cdot 36$	434	18	4 · 10
1909	1013	744 · 1	53	$5 \cdot 23$	760	39	5 · 10
1910	795	580 · 3	27	$3 \cdot 39$	538	17	3 · 10
1911	343	$248 \cdot 9$	10	$2 \cdot 91$	241	5	2.00
1912	116	87 · 1	3	$2 \cdot 59$	78	2	2.50
1913	268	200 · 8	1	$0 \cdot 37$	199	2	1.01
1914	704	$524 \cdot 1$	10	1.40	560	6	1.07
1915	460	341.5	6	1.30	360	5	1.40
1916	153	116 · 1	4	$2 \cdot 60$	101	2	1.90
1917	96	76.0	2	$2 \cdot 08$	68	1	1.50
1918	150	120 · 1	2	1.30	122	2	1.60
1919	136	103 · 6	2	1.47	105	2	1.90
1920	181	$120 \cdot 9$	3	1.60	164	3	2.40
1921	211	163.0	1	0.40	162	1	0.60
1922	231	178.5	2	0.80	186	2	0.80
1923	216	$167 \cdot 4$	0	0.00	181	0	0.00
1924	70	$54 \cdot 2$	1	1 · 43	62	1	1.60
1925	304	$239 \cdot 5$	3	0.98	274	3	1 · 10
1926	218	$175 \cdot 2$	1	0.46	192	1	0.53
1927	125	100 · 4	1	0.80	116	1	0.86
1928	121	96.7	0	0 00	104	0	0.00
1929	761	607.3	2	0.26	634	1	0.15
1930	342	$272 \cdot 1$	0	0.00	285	0	0.00
1931	81	$65 \cdot 3$	0	0.00	64	1	1.56
1932	232	189.8	1	0.43	189	1	0.52
1933	549	452.5	2	0.36	430	2	0.46
1934	665	554.7	5	0.75	404	1	0.24
1935	364	307 · 1	1	0.27	269	1	0.37
1936	311	268 · 1	0	0.00	251	0	0.00

DIPHTHERIA.

During the year 112 eases of diphtheria were notified, a figure equivalent to an attack rate of 0.96 per 1,000 of population. There were two deaths, giving a mortality rate of 1.7 per 100 eases notified, the lowest figure recorded in Blackburn.

One hundred and eight eases, or $96 \cdot 4 \%$ of the total notified, were removed to Hospital.

The disease was of a less severe type than in the preceding year.

SUPPLY OF ANTITOXIN TO PRACTITIONERS.

A supply of antitoxin for the use of practitioners is kept at the Health Office. A further quantity is kept at the Police Office, to which practitioners apply when the Health Office is closed.

The practitioners, as a body, avail themselves of the anti-toxin provided by the Health Department. During 1936, 824,000 units of anti-toxin were so dispensed.

TABLE 40.
DIPHTHERIA.

•	Cases	Attack Rate		Per-		Cases Adm o Hospita	
Year.	Notified in Black- burn.	per 100,000 of popu- lation.	No. of Deaths.	centage of Deaths to cases notified.	No. Admitted	No. of Deaths.	Per- centage of Deaths to cases treated.
1907	150	111.5	17	11.3	63	5	7.9
1908	100	73 · 9	12	12.0	39	0	Nil.
1909	102	74 · 9	18	17.6	29	5	17.2
1910	96	70.0	22	22.9	42	9	21.4
1911	107	77.6	28	26 · 1	54	9	16.6
1912	55	41.3	9	16.4	36	5	13.9
1913	76	56 · 7	7	$9 \cdot 2$	55	7	12.7
1914	62	46 · 1	7	11.3	37	2	$5 \cdot 4$
1915	39	28.9	8	20.6	24	3	12.5
1916	52	39.5	9	17.3	32	3	9.3
1917	50	39.5	8	16.0	41	4	9.9
1918	57	45.6	11	19.3	56	4	7 · 1
1919	30	22.8	3	10.0	24	1	4.1
1920	69	49.3	10	14.5	59	7	13.2
1921	45	34.8	6	13 · 4	27	3	11.0
1922	52	40 · 1	7	13.4	38	9.	13.0
1923	35	27 · 1	1	2.8	32	1	3.1
1924	62	48.0	3	4.8	48	2	4.1
1925	67	52.8	8	11.9	58	6	7.7
1926	81	65.0	8	9.9	73	8	9 · 3
1927	99	79.5	11	11.1	106	12	11.3
1928	124	99 · 1	14	11.2	111	7	6 · 3
1929	197	157 · 2	18	$9 \cdot 1$	175	16	$9 \cdot 2$
1930	133	106.0	9	$6 \cdot 7$	125	12	9.6
1931	57	46.0	2	3 · 5	50	3	6.0
1932	95	77.7	7	7 · 3	91	9	9.8
1933	109	89.7	5	$4 \cdot 5$	99	5	5.0
1934	90	75.0	4	4 · 4	86	4	4.6
1935	163	137.9	23	14.1	155	22	14.2
1936	112	96.5	2	1.7	112	4	3.5

DIPHTHERIA PREVENTION.

The work of immunisation was continued, and during the year a total of 573 ehildren underwent treatment.

TABLE 41.

CHILDREN IMMUNISED AT SCHOOL.

Total No.	Three	Two	One
In noculated.	Innoculations.	Innoculations.	Innoculation.
434	 8	 426	 0

IMMUNISATIONS AT HEALTH DEPARTMENT CLINIC.

		Three	Two	One
Total.		Innoculations.	Innoculations.	Innoculation.
100		18	 82	 0

IMMUNISATIONS AT MATERNITY AND CHILD WELFARE CENTRES.

		Two	One		
Total.		Innoculations		Innoculation	
39	•••	17	•••	22	

SCHICK TESTS PERFORMED AT HEALTH DEPARTMENT CLINIC.

Total.	Negative.		Positive.		Failed to Attend for Reading.		
5	 4	•••	L	•••	_		

Total Immunisations at all Diphtheria Prevention Clinics.

Total Schick Tests
Performed at all Clinics.

573 ... 5

ENTERIC FEVER.

Six eases were notified as enteric fever during the year. Five of these notifications were in respect of Borough residents, of which one proved not to be enteric.

The sixth ease was a Clitheroe resident, who was admitted to the Royal Infirmary and there died. Serological confirmation of B. Paratyphosus B. infection was received the day after death, and full particulars of the ease were then submitted to the Clitheroe Medical Officer of Health.

Three of the Borough eases were notified between January 2nd and January 23rd, and the fourth on June 30th. The infecting agent in this group was B. Typhosus (two eases), and B. Paratyphosus B. (two eases).

As two eases of enteric infection, one by B. Typhosus and one by B. Paratyphosus B., which occurred in the Borough during the latter five weeks of 1935, are possibly linked with those notified during 1936, they are incorporated in the appended histories.

- Case I.—Male, aged 61 years, resident in Queen's Park District, siekened of B. Typhosus infection November 29th, 1935, notified and admitted to Corporation Hospital, December 18th, 1935.
- Case II.—Female, aged 22 years, resident in Royal Infirmary District. Siekened of B. Paratyphosus B. infection on December 14th, 1935, notified and admitted to Hospital December 29th, 1935.
- Case III.—Nurse at Royal Infirmary, aged 30. Siekened of B. Typhosus infection December 17th, 1935, continued on duty until warded on December 21st. Notified on January 2nd, 1936, and removed to Hospital.
- Case IV.—Nurse at Royal Infirmary, aged 26, siekened of B. Typhosus infection about the 10th January, notified and removed to Hospital, January 17th.
- Case V.—Male, aged 29 years, resident in Brownhill. Siekened on January 12th, but was not reported to the Health Department until the 22nd, on which date serological diagnosis of B. Typhosus infection was received from the Public Health Laboratory.

On receipt of that report I visited his home and arranged for removal to Hospital. He died before removal.

Case VI.—Female, aged 30, resident in Revidge District, sickened of B. Paratyphosus B. infection about June 20th, notified and removed to Hospital June 30th.

Exhaustive enquiries into the origin of these cases yielded negative results, although Case IV may either have become infected by Case III or by the same source. Contact of these two cases with either Nos. I or V of the series could not be traced.

The movements of the cases during the three weeks prior to onset were carefully checked, but failed to give any source of infection.

Socially, the three cases of paratyphoid had different interests, they lived in various parts of the town, as far as could be ascertained had no mutual friends, nor was there any common milk supply or laundry.

Results of water analyses absolved the supplies of the affected households.

Although there was no evidence as to shell-fish consumption by any of the infected persons, special samples of cockles and mussels were bacteriologically examined, as a result of which, and in co-operation with the local wholesalers, the supply of mussels from a certain source was discontinued.

In a further effort to trace a source of infection all bacteriological reports on specimens from cases notified as enteric since 1930 were scrutinised and further specimens were examined, again with negative result.

PUBLIC HEALTH (INFECTIOUS DISEASES) REGULATIONS, 1927.

One hundred and forty cases of acute primary and acute influenzal pneumonia were notified in 1936, compared with 181 in 1935. Twenty-three of these cases terminated fatally, which represents a case mortality of $16 \cdot 43\%$, compared with $22 \cdot 09\%$ in 1935.

MEASLES.

This disease is not notifiable under the Infectious Diseases (Notification) Act.

Two hundred and twenty-four eases were brought to the notice of the Public Health Department by parents and teachers. The cases notified in previous years were: 1,192 in 1935; 42 in 1934; 1,194 in 1933; 68 in 1932; 447 in 1931; 1,976 in 1930; 242 in 1929; 67 in 1928; 1,272 in 1927; and 619 in 1926.

No deaths from measles occurred during the year.

WHOOPING COUGH.

This disease is not notifiable. Such eases as were brought to the notice of the Health Department were ascertained through the agency of teachers, school attendance officers, and the Maternity and Child Welfare Centres. The number of eases (105) was lower than in 1935, when 350 cases were notified; five deaths occurred from this eause, the case mortality rate being 47%, compared with 2.0% in 1935.

DIARRHŒA.

This disease is voluntarily notifiable in Blackburn between July 1st and October 31st of each year, notification being required in respect of children under two years of age. Only five cases were notified during the year.

Diarrhœa was certified as the eause of four deaths.

Three of the deaths were in respect of infants under one year of age; and one was in the 65—75 age group.

The death rate per 1,000 births for the age group under two years was $2 \cdot 20$; the corresponding figure in 1935 was $3 \cdot 52$, and $4 \cdot 85$ in 1934, and $6 \cdot 17$ in 1933.

CHICKEN-POX.

During 1936 355 cases were notified by parents, school teachers, etc., compared with 177 cases notified in 1935, and 734 cases in 1934.

DYSENTERY.

Three cases were notified during the year, one of which proved to be an infection with the Sonnë dysentery bacillus. The diagnosis could not be confirmed bacteriologically in the other cases.

ENCEPHALITIS LETHARGICA.

During 1936 three cases were notified as encephalitis lethargica. Five cases were certified as having died from encephalitis lethargica during the year.

No special arrangements exist for the after-care of cases of encephalitis lethargica, although accommodation is available at Queen's Park Hospital for this class of case.

OTHER NON-NOTIFIABLE DISEASES.

Full use is made of information received from teachers and school attendance officers respecting the occurrence of cases of measles and whooping-cough, etc. These cases are followed up and investigated by the District Sanitary Inspectors, who submit investigation reports to the Medical Officer of Health.

INFLUENZA.

Influenza was not prevalent during the year. There were 12 deaths, a figure equivalent to 0.10 deaths per 1,000 population.

TABLE 42.

Vaccination Returns, 1936.

Month	Births	Successfully Vaccinated	Exampted	Died Unvaccin- ated	Vaccination Postponed	Removed not traced	Removed	Unaccount.	Insuscept- able
January .	105	27	55	14	2	2	1	4	
February .	105	38	54	7		2	1	3	-
March	127	32	77	6	—	1	_	10	1
April	130	49	59	9	1	- /	4	8	_
May	131	28	86	3	1	3	4	6	
June	137	34	88	3	3	1	- 1	8	_
July	125	27	78	6	2	1		11	_
August	131	31	73	8	-	3	2	14	
September	139	12	81	10	2	2	1	31	_
October	103	6	49	7	_	_	1	40	_
November	116	2	33	6	_	1	_	74	
December	118	_	23	5	-		-	90	
Totals	1467	286	756	84	11	16	14	299	1

From the above Table it will be noted that of 1,467 children born during the year only 286, or $19\cdot4\%$, were successfully vaccinated, and exemptions were successfully claimed in respect of 756 children, or $51\cdot5\%$ of those born.

CORPORATION HOSPITAL.

There are 124 beds at the Corporation Hospital, allotted as follows:-

Scarlet Fever	•••				• • •	30 bcds
Diphtheria		• • •			• • •	16 beds
Tuberculosis	•••	•••		•••	•••	64 beds
Other Infectious	Disea	ases	•••			14 beds

During the year considerable alterations have been effected at the Hospital where, amongst other improvements, Ward V has been modernised by the installation of central heating and replacement of the old lights with an up-to-date hospital lighting system. The original floor of this Ward was of terrazzo,

a material which has the disadvantages of being cold, hard, noisy, and also particularly favourable to condensation dampness. As part of the reconstruction scheme birch flooring has been overlaid, and has contributed materially to the comfort of both patients and staff.

The ward kitchen and sanitary annexes were also altered, and lavatory basins have been installed in the wards.

In addition to the ward alterations the greater part of the ground to its west front has been filled in and reclaimed. What was an area of rough grass has been transformed into a eroquet lawn, a sunken rock and rose-garden and a small terraced lawn. The remainder of this land is to be reclaimed.

During the present financial year Ward I is to be eentrally heated, rewired and modernised, and the Committee is to eonsider the sub-division of one wing of this ward into separate and self-contained glass cubicles. These cubicles will not only enable a larger variety of cases to be treated in hospital at the same time, but will also be available for the reception of a proportion of cases of searlet fever admitted. It is well established that cases of the latter disease treated in open wards show a higher complication rate than those treated in separate cubicles. Complications prolong hospital stay, and are, therefore, an added expense to the Authority. Although it is not a cheap matter to split an open ward up into cubicles, the initial outlay will be justified by the increased efficiency of your hospital.

TABLE 43.

Corporation Hospital.

apainsoraq a	or eseaO expressed as of total	91.6		2.08	96.4	83.8	1	28.1	1	1		1	
fo redmus gairub bei 36	dnooo spaq	40.75		$31 \cdot 56 23 \cdot 26$	29.00 10.40	$1 \cdot 27$	0.50	0.32	80.0	0.94		1	36.47
not not	Case Av. No Mor- of days sality in '\text{in} \text{Aosp'l}	12.22 101.26 40.75		31.56	29.00	63.43	10.28	10.54	29.00	15.63	1	1	29.71 36.47
admitte rged or ear.	Case Mortality %	12.22		0.00	3.05	14.28	0.00	18.18	0.00	18.18	0.00	00.0	2.45
s of all cases adn hether discharged during the year.	Died	16		1	4	_	1	c)	1	4	1	ı	11
Analysis of all cases admitted in 1936 whether discharged or not during the year.	Re-	115		269	127	9	1	6	_	18		1	437
Analy 1936	Total	131		269	131	7	_	11	_	22		1	448
zining on t, 1936	Died			1	1	I	1		-		1	1	
Patients remaining in Hospital on December 31st, 1936	Re- Total covered	26		32	11	7	1		1	C1	١	1	46
Patie in H Decem	Total	26		35	11	-	1	1	1	ଚୀ	١	1	46
nitted rged	Died	16		1	4	7	1	61	1	4			11
Patients admitted and Discharged in 1936.	Re-	68		237	116	ů.	7	6	7	91	1	1	391
Pati	Total	105		237	120	9	<u></u>	11	-	20	1		402
l on 1936.	Died	5		1	1		1	1			1	1	
Patients remaining in Hospital on January 1st, 1936.	Re-	40		11	10	©1	1	1	1	١	_	1	24
Patie in I Janu	Total	45		11	10	сı			1	1	7		24
		Tuberoulosis	INFECTIOUS DISEASES	Scarlet Fever	Diphtheria	Enteric Fever	Measles	Erysipelas	Chicken Pox	Other Diseases	Puerperal Fever	Puerperal Pyrexia	Totals

SCARLET FEVER.

Two hundred and sixty-nine patients were admitted to Hospital as suffering from searlet fever. Fourteen of these patients proved to be suffering from other conditions. There were no deaths from searlet fever during the year.

Anti-toxin is administered to the more severe eases, and patients are no longer detained in hospital until desquamation eeases, provided that no diseharges or septie sores are present.

The following Table gives the ages and sexes of the patients admitted:-

TABLE 44.

Ages.	Males.	Females.	Totals.	Deaths.
0— 1 years .	. 1	1	2	_
1— 2 ,, .	. 1	2	3	-
2 3	. 2	7	9	
3 4 ,, .	. 9	10	19	
4 5 , .	. 20	21	41	
5—10 ,, .	. 54	62	116	-
1015 ,, .	. 21	27	48	
15—25 , .	. 5	14	19	_
25—-35 ,, .	. 1	6	7	
3545 ,, .	. 1	4	5	-
45 and over .		_	-	_
Total, 1936 .	115	154	269	_
Total, 1935 .	134	153	287	3
Total, 1934 .	. 200	220	420	1
Total, 1933 .	. 232	231	463	2
Total, 1932 .	. 86	121	207	1

The following Table is an analysis of all eases admitted to the Corporation Hospital as Searlet Fever.

TABLE 45.

	Deaths	1	:	1		11	1		1	1	1 1	1
	Other Diseases	1	1	7-		I	1		-	1	7	
AS F	Bronchitis	1	1	11]	1	1	1		11	1	Ī
ER ET TO	ziilliznoT	_		-			65		T		01	
SENT IN AS SCARLET FEVER PROVED TO BE	Pneumonia			1	1		1			1	_ 1	14
SC. F.	Diphtheria	1	1	1		-	1	1	1	1	1	ļ
N H	Chicken Pox					1	1				1	<u> </u>
	Rubella	- 1	C)	1	1		1		<u> </u>	l	1	├
	Cardiac Irreg.	1		1	-	-	_	1	1	1	1	
	silitalstldq0	1		1	1	1				1	<u> </u>	_
	sitidəlid	1	!	1	1	1	1	1	1	1	1	
	Endocarditis		1	1	1	1	1	1	1	1		<u> </u>
	Ac. Mastoiditis	1	-		1	1	1		1	1		
	ypscesses	1	1		1	1		1	1		1	
Z.S.	Rhemmatism	1	1			ı	1		1	1	1	
COMPLICATIONS	Septic Fingers	I	C1		61			1			1	
LICA	Cervical Adenitis	ಣ	-	©1	ಣ	1	1		ı	1		
OMP	Отогглоеа	ତା	4	∞	12	-		1		1		
ర	Serum Rash	Ł	1	1	1	1	1	1	1		1	
	Къріпоттроеа	7		9	9	1	1		ı	1		
	Phlyc. Keratitis	1	1	1	1	1	1	1	1	1		
	Bronchitis	1	1	1	}	1	1	1	1	1	1	
	Tonsilitis.	ı	1	1	- 1	-1	1		_1_	1	1	
	Nephritis	1		01	ତ ।		1		ı	1		
	Excoriations Lips, Mostrils etc.	က	ဗ	က	9	ı	ı	1	,	-1		
	Proved to be rever Fever	35	39	51	62	20	9.4 10.4	G1	9	ಸಾ	14	255
	1~	4	ಣ	9	4	ı	-	T.	1	ı	-	
S E	9	1	01	-	_	-	H	1	1	ŧ		ĺ
SSTO	ಸರ	ಣ	5	ಣ	9	П	4		1	ł	1	
DAY OF DISEASE ON ADMISSION	4	20	7	4	12	က	2	ı	4	က	₩	269
K OJ	ෙ	ī	9	16	50	11	12	C1	1	-	9	
DA.	દા	15	16	61	17	4	9	I	1	-	4	
	_	1	61	ଦା	63	1	1	ı	_	1	1	
	ø		F		F		F				된.	
UPS.		•		•		•		•		•		
	AGE GROUPS (YEARS).	M.	[<u>T</u>	M.	بتا	M.	H	M.	E4	M.	5	
	ZEZ] [10	2	-90		7-4		
	C	10		7. 		10 - 15		15		20+	-	
	4	_	, [al.		2		1. S.		2		

Of the 21 cases with otorrhea, two developed acute mastoiditis, necessitating operation, which was performed by Mr. J. M. Wishart.

Tonsillectomy was earried out on four patients, who proved to be persistent diphtheria earriers. In each ease the operation was successful in rendering the patient free from infection.

The following Table shows the percentage of Scarlet Fever removals in Wards, 1936:—

TABLE 46.

Ward.					1935 Percentage	1936 Percentage.
St. Stephen's			 		$67 \cdot 4$	80 · 6
Trinity			 		88.0	$92 \cdot 3$
St. Michael's			 		83.3	50.0
St. John's			 		77 · 7	83 · 3
St. Silas's			 		43 · 4	$67 \cdot 7$
St. Paul's			 		$86 \cdot 2$	81 • 2
St. Peter's			 		100.0	100.0
St. Mary's			 		100.0	83 · 3
St. Matthew's			 		88.5	81 · 8
St. Thomas's			 		56.1	94.8
Park			 		$66 \cdot 6$	$70 \cdot 6$
St. Luke's			 	• •	66.6	90.0
St. Mark's			 		$70 \cdot 6$	85.7
St. Andrew's			 		70.0	82 • 6
T	OTAL	• •	 • •	• •	$73 \cdot 9$	80 · 7

Monthly Admissions of Scarlet Fever Cases to the Corporation Hospital during 1936:—

TABLE 47.

1935.

11

9

269

 $68 \cdot 7$

 $50 \cdot 0$

 $73 \cdot 9$

1936.

November

December

TOTAL

51

28

311

42

23

251

Month. Cases CasesCascsPercentage Cases Percentage Notified. Removed. of Removals. Notified Removed. of Removals. 78-9 89 63 $70 \cdot 7$ January ... 19 15 14 $93 \cdot 3$ 65 54 $83 \cdot 0$ February 15 19 $100 \cdot 0$ 48 40 $83 \cdot 3$ March 19 18 88.8 21 12 57.1 April 16 May 21 18 $85 \cdot 7$ 25 20 $80 \cdot 0$. . 17 June 11 $64 \cdot 7$ 14 12 $85 \cdot 7$ 13 $84 \cdot 6$ 11 8 $72 \cdot 7$ July 11 August .. 25 20 80.0 11 9 81.8 24 $70 \cdot 8$ 23 19 September 17 $82 \cdot 6$ October 61 45 $73 \cdot 7$ 23 12 $52 \cdot 1$

Cases of searlet fever are removed to Hospital on request by the general practitioner in charge of the case. Such request is invariably reserved for eases where home isolation or nursing presents difficulty.

 $82 \cdot 3$

 $82 \cdot 1$

 $80 \cdot 7$

16

18

364

DIPHTHERIA

One hundred and thirty-one eases, of which eight were from outside the Borough, were admitted to Hospital during 1936.

Thirty of these eases, one of whom died, proved not to be diphtheria, but were suffering from the undermentioned conditions:—

Scarlet Fever		•••	•••	•••	5
Tonsillitis	•••	•••	•••	•••	21
Laryngitis					2
Measles	•••				1
Not Infectious Disease		•••			1
					30

The following is an analysis of the cases admitted as diphtheria:—

	DEATHS	o i	1	l i	L	,	1 -	1	1		1	4
	Other Diseases					1	1	1	1	i	1	-
AS AS STA	Measles	-	1	<u> </u>	1 1	i	1 1	1		1 1	1 1	<u> </u>
SPITAL SPITAL PHTHER PROVE TO BE	Bronchitis	1		1		1	1	1	1 1	1 1	1	် ဇ္က
SENT INTO HOSPITAL AS DIPHTHERIA BUT PROVED TO BE	sittlienoT.	ಣ	<u> </u>	1	(c)	9	 	1	 	61	20	📆
S _I Hc D _I B _U	Laryngitis	1	-	- 1	1		1	I] +	1	-	Ì i
	Scarlet Fever	ı		61	I	रो	~	1		I	1	
	unimndl A	-	1	Ť	I	1	I	1	ı	ı	1	
	Rheumatism	П		1	1							Ī
SNO	Strabismus		1	1	-	-	1	i	1	ı	1	
CATI	sitin9bA	~	<u>-</u>	1	1	_	1	1	1	1	ı	
PLIC	Palatal Paralysis	-		61	C1	ଦୀ	-	-	ı	-	ı	
COMPLICATIONS	Cardiac Irregularity	1	1	-	-	က	က	-1	1	-	ı	
	Bronchitis	ı	,		-	1	1	ı	ı	1	I	
1	zitiliznoT	_	1	I	-	1	1	1	I	1	1	
	Hæmorrhagic	I	1	I	t	1	1	1	1_	1	1	
	Faucial	61	-	જા	1	-	1	1	-	ı	-	
S OF	lasaN	ı	ı	ତା	-		1	I	ı	1	ı`	_
TYPES OF DIPHTHERIA	Naso Pharyngeal	-		્ય	-	61	©1	-	2	1	1	101
T Q	1sllisnoT	63	22	13	14	-	10	_	ಬ	-	15	
ĺ	Laryngeal	63		1			1	1	I	i	ı	
		1	ı	-	I	1	_	I	ı	1	i	
ON ADMISSION	+2	က	က	ಣ	9	23	1	1	1	П	- 1	
Армі	9	_	ı	¢1	1	I	1	1	- 1	ı	2	
NO N	25	П	I	67	I	1	I	П	i	1	က	1
Day of Disease	4	4	61	61	က	က	4	1	က	ı	4	131
Dis	က	2	~	4	က	9	4	i	4	1	4	
Y OF	63	-	က	7	ಬ	9	9	1	1	1	œ	
DA	-	i	1	1	1	ı	ı	ı	1	-	1	
	AGE GROUPS (YEARS)	M		M	 H	M		M		M	F	

The type of diphtheria prevalent throughout the year was of a less severe type than in the preceding year. Three patients died from the disease, the case mortality rate being 2.99%.

During the year two eases of laryngeal and tracheal diphtheria were admitted to the Corporation Hospital. Tracheotomy was not necessary in either of the cases.

TABLE 49.

Incidence of Diphtheria Cases Admitted to Hospital.

Ages.	Males.	Females.	Totals.	Deaths.
Under 1 year		1	1	
1—2 years	1		1	_
2—3 years		4	4	
3— 4 years	6	3	9	1
4— 5 years	5	1	6	1
5—10 years	21	18	39	_
10—15 years	17	15	32	1
15—25 years	3	15	18	
25—35 years	3	11	14	1
35 years and over	1	6	7	
Totals, 1936	57	74	131	4
Totals, 1935	74	89	163	23
TOTALS, 1934	47	47	94	5
TOTALS, 1933	70	63	133	6
TOTALS, 1932	42	66	108	11

The following Table shows the percentage of Diphtheria removals in Wards, 1936:—

TABLE 50.

Ward.				n	1935	1936
wara.				I	ercentage.	Percentage.
St. Stephen's			 		80 · 0	100.0
Trinity			 		100.0	100.0
St. Michael's			 		$93 \cdot 3$	100.0
St. John's			 		100.0	100.0
St. Silas's			 		100.0	100 · 0
St. Paul's			 		$92 \cdot 6$	100.0
St. Peter's			 		100 • 0	100.0
St. Mary's			 		$90 \cdot 9$	100.0
St. Matthew's			 		$94 \cdot 1$	100.0
St. Thomas's			 		100.0	81.8
Park		• •	 		100.0	90.0
St. Luke's			 		100.0	75.0
St. Mark's			 		100.0	100.0
St. Andrew's			 		100.0	100.0
Ton	FAL		 	• •	95.1	96.4

TABLE 51.

The monthly incidence of Diphtheria in Blackburn was:—

		1936.			1935.	
Month.	Cases	Cases	Percentage	Cases	Cases	Percentage
	Notified.	Removed.	of Removals.	Notified.	Removed.	of Removals.
January	9	9	100.0	15	15	100 · 0
February	8	8	100.0	17	17	100.0
March	18	18	100 · 0	18	18	100.0
April	9	9	100 · 0	17	17	100.0
May	3	3	100 · 0	17	16	94 • 1
June	6	5	83 · 3	12	12	100 · 0
July	7	7	100 · 0	6	5	83 · 3
August	9	9	100.0	14	13	$92 \cdot 8$
September	8	8	100.0	8	8	100.0
October	8	8	100.0	9	9	100 · 0
November	16	16	100.0	16	16	100.0
December	11	8	72.7	14	9	$64 \cdot 2$
TOTAL	112	108	96 · 4	163	155	95 · 1

TABLE 52.
ENTERIC FEVER.

Age Period.	Males.	F'emales.	Total.	Deaths.
Under 10 years	1		1	_
10—15 years		_	_	
15—25 years	1		1	1
25—35 years	1	3	4	_
35—45 years	1		1	_
15 and upwards				_
TOTAL	4	3	7	1

OTHER DISEASES.

TABLE 53.

Age Periods.

Disease,	0-	-1	1-	-2	2-	-5	5—	-15	15-	-25	25—	-35	35-	-45	45 8	ես թ	Total	Deaths
	M.	F.	М.	F.	М.	F.	M.	F.	М.	F.	M.	F.	Μ.	F.	М.	F.	T	De
Whooping Cough	-	-	1	1	-	-			_	_	-	_	_	~	-	-	2)-
Measles	2	-	_	-	1	1	1	-	-	2	-	_		-	_	-	7	-
Puerperal Fever	-	-	- '	-	_	-	_	-	- 1	_	-	-	- (-	-	-	-	-
Puerperal Pyrexia	-		-	-	-	-	-	_	-	_		_		-	-	-	-	-
Erysipelas	-	-	-	_	-	-		1	-	2	1	-	1	1	3	2	11	2
Ophthalmia																		
Neonatorum	-	4	-	-	-	-	-	-	-	-1	-	-	-	-		-	4	-
Meningitis	-	-	-	-	-	-	5	1	2	-11	1	-	1	-		-	10	4
No Disease	-	-	-	-	-	-	-	-	V -		-	_	-	-	-	_	-	-
Other Diseases	_	-	-	-	1		-	-)	-	1		3	-	-	-	1	6	-
Chickenpox	1	-	_	-		-	_	_	-	-	_	-	-	-	-	-	1	-
													1					
	3	4	1	1	2	1	6	2	2	5	2	3	2	1	3	3	41	6

Selected and complicated cases of measles and whooping cough are admitted to the Corporation Hospital.

TABLE 54.

Out of Borough Cases.

Disease.	Males.	Females.	Total.	Deaths.
Scarlet Fever	12	6	18	
Diphtheria	8	15	23	2
Puerperal Pyrexia			•••	
Erysipelas	2		$_{2}$	1
Puerperal Fever			•••	
Other Diseases	5	6	11	2
				1
Тотац	27	27	54	5

TABLE 55.

ADMISSIONS FROM THE BLACKBURN ROYAL INFIRMARY.

Disease		Male.	Female	Total	Deaths
Scarlet Fever		 •••	2	2	•••
Meningitis		 2		2	1
Erysipelas		 3	2	5	1
Enteric Fever		 	4	4	•••
Diphtheria		 1	1	2	2
Measles	•••	 1		1	•••
Total		 7	9	16	4

ADMISSIONS FROM QUEEN'S PARK HOSPITAL.

Disease		Male	Female	Total	Deaths
Scarlet Fever	 	•••	1	1	
Enteric Fever	 	1		1	
Diphtheria	 	3	2	5	
Erysipelas		1		1	1
Chickenpox	 [1		l	•••
Measles	 	1	3	4	
Whooping Cough		•••	1	1	
Total	 	7	7	14	1

Cases from the Blackburn and East Lancashire Royal Infirmary and Queen's Park Hospital are included in the Out-of-the-Borough Table, if the cases were not Blackburn residents.

BACTERIOLOGICAL EXAMINATIONS.

AT THE CORPORATION HOSPITAL.

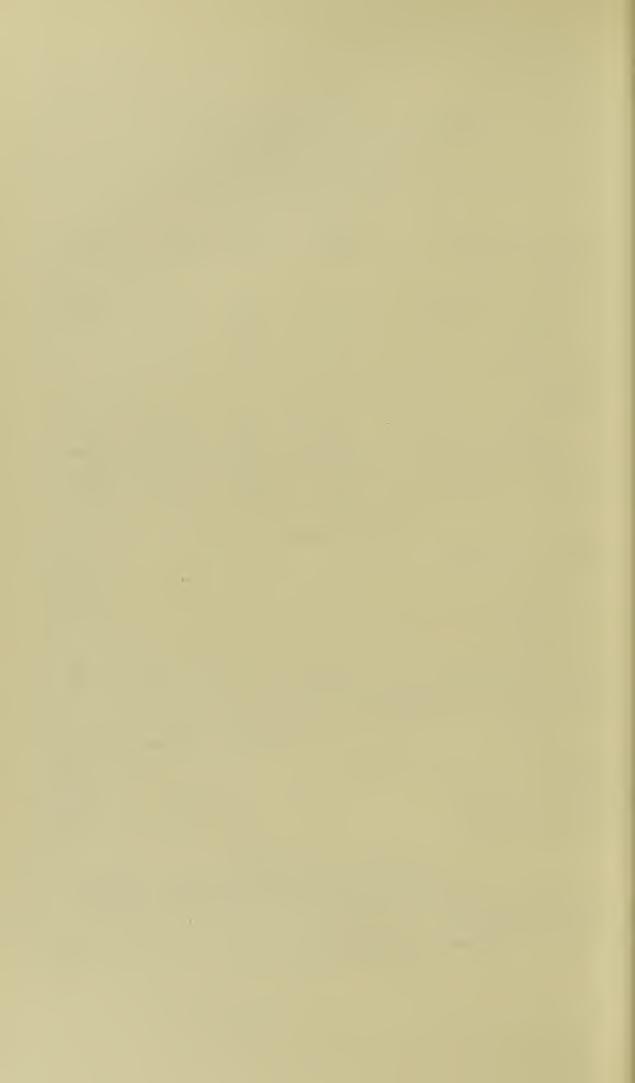
TABLE 56.

					1936				1935
Examination and Materia	l.		Positive		Negative		Total		Total
For Diphtheria Bacilli :-									
Swabe-									
Private Practitio	ners		27		419		446	•••	863
Hospital	•••	•••	131	•••	621	•••	7 52		434
Others		•••	0	•••	0	•••	0	•••	0
For Tubercle Bacilli:—									
Sputum—									
Private Practitio	ners	•••	21		86	•••	107		124
Hospital			68	•••	122	•••	190	•••	78
Tuberculosis Dis	pensary	•••	44	•••	144	• • •	188	•••	299
Total	s	•••	291	•••	1392	•••	1683	•••	1798
		T **		dro:					
Number of Daniel Commun	a .	DIS	INFECT		N.				
Number of Rooms Spraye	a ;								
Tuberculosis	• •	• •	• •	• •	• •	• •		• •	198
Fever Vermin	• •	• •	• •	••	••	• •	••	• •	669 212
Institutions	• •	• •		• •		• •	• •	••	77
Schools		• •			•	••	• •	• •	24
Others	••						• •		132
Articles Disinfected by Ste	am								25580
Number of Articles Destro	yed by (Conse	nt of Owr	ers					565
Amount of Disinfectant D	istribute	ed :	-						
Chloros					(Gallons	3 J	School		230
				••	(GGIIGII	′ (Houses	3	92
Persons Cleansed at Disir			ion	• •	••	• •	• •	••	13
Cleansings	••	• •	• •	• •	••	• •	• •	• •	48
Library Books Fumigated Private Books Fumigated	••	• •	••	• •	• •	• •	• •	• •	209
School Books Fumigated	• •	••	• •	• •	• •	• •	••	••	65 40
Delicol Dooks Fulligated	• •	• •	• •	• •	• •	• •	• •	• •	40

CLEANSING OF PERSONS.

During 1936, 13 persons were dealt with at the Throstle Street Disinfecting and Cleansing Station.

The total number of baths given was 48.



PART V.

Prevalence of,

and

Control over,

Tuberculosis.

TUBERCULOSIS.

INCIDENCE AND MORTALITY.

During the year 139 cases of Tuberculosis, 103 Pulmonary and 36 Non-Pulmonary, were notified. In 1935 the notifications numbered 134; in 1934, 110; in 1933, 108; in 1932, 114; in 1931, 210; in 1930, 191; in 1929, 155. The notification of Tuberculosis in the area has been fairly satisfactory and there have been no cases of wilful neglect or refusal to notify.

The number of deaths in 1936 from all forms of Tuberculosis was 88; Pulmonary Tuberculosis caused 79 deaths, and Non-Pulmonary Tuberculosis nine. Thirteen, or $14\cdot54\%$ of the deaths from Tuberculosis were in respect of cases which had not been notified during life.

RECORDS OF PREVIOUS YEARS.

Deaths from Tuberculosis	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927
Pulmonary	79	79	67	84	79	97	105	114	82	96
Non-Pulmonary	9	17	11	12	19	18	18	13	21	14

The number of deaths from all forms of Tuberculosis is equivalent to a rate of 0.75 deaths per 1,000 living.

MORTALITY RATE PER 1,000 LIVING COMPARED WITH THAT OF ENGLAND AND WALES.

1936 1935 1934 1933 1932 1931 1930 1929 1928 1927 1926 1925 1924 Blackburn...0·75 0·80 0·65 0·78 0·79 0·93 0·97 1·01 0·82 0·88 0·93 0·86 0·86 England & Wales...0·72 0·76 0·82 0·89 0·89 0·89 0·96 0·93 0·97 0·96 1·04 1·06

Perusal of the above Table shows that the death rate from all forms of Tuberculosis in Blackburn compares favourably with the corresponding rate for England and Walcs.

Of the cases notified during the year 33 died, 28 of the deaths being from Pulmonary, and 5 from Non-Pulmonary disease.

The appended Table gives the age-groups of the cases notified and cases coming to the knowledge of the Medical Officer of Health other than by formal notification and of the deaths for the year 1936.

TABLE 57.

	New Cases De					eaths.		
Age Periods.	Pulmonary Non- Pulmonary.			Pulmo	onary.	Non- Pulmonary.		
	М.	F.	М.	F.	М.	F.	м.	F.
Under one year				1 4	_	_	_	1
5—10 ,, 10—15 ,,	1 1	_ 1	6 2	4	_ _	_	_ 1	_
15—20 ,, 20—25 ,,	5 8	5 10	4 1	1 3	3 7	2 5	<u> </u>	_
25—35 ,, 35—45 ,,	15 17	13 5	2 1	4 3	7 16	5 5	_	1 1
45—55 ,, 55—65 ,,	11 15	4	_	— —	8 10	3 4	1	1 —
65 and upwards	3	4	_	1	2	2	1	1
Totals	76	46	18	21	53	26	4	5

Of cases notified during the year, the attack rate corresponds, in the case of males, to 1.77 per 1,000, and of females, to 1.06 per 1,000.

THE TUBERCULOSIS SCHEME.

During the year practitioners have referred 290 cases for examination at the Dispensary, and the Tuberculosis Officer has held 275 consultations with practitioners.

107 sputum examinations were undertaken for private practitioners and 378 in respect of patients attending the Dispensary.

During the year the Nurse made 2,338 home visits, 138 of which were in respect of ex-Service men.

The appended Table, which relates to persons who were at home during the last quarter of 1936, demonstrates the difficulty experienced in securing isolation of this type of case:—

TABLE 58.

						On First Visit.	After- wards.
No. who occupy a separate b	edroom					157	213
No. who occupy a separate p	arlour a	alone				9	13
No. who occupied a kitchen a	alone					_	
No. who occupied a shelter in	yard					_	_
No. who occupied a separate	bed in	a room	occu pi	ed by:	_		
One other person						36	35
Two other persons						36	32
Three other persons						2	5
Four other persons						1	; 1
Five other persons						1	1
Many other persons (Cor	umon I	Lodging	House	, &c.)		6	6
No. who occupied a bed in o	commor	n with:	_				
One other person						177	120
Two other persons						3	3
Two beds in a room :—							
Two persons in each bed						17	16
Three persons in each be	d]	1	
No. who occupy a bed in con		vith:					
One other person, and a	nother 1	person i	n room	ı		17	18
Total						463	463

THE TREATMENT OF TUBERCULOSIS.

At the beginning of 1936 there were 438 Pulmonary and 123 Non-Pulmonary cases on the Dispensary Register.

The Tuberculosis Notification Register is a Register of all notified cases of Tuberculosis, whereas the Dispensary Register refers only to cases actually attending the Dispensary.

During the year 378 Pulmonary and 20 Non-Pulmonary cases were added to the Register, consequently 866 Pulmonary, and 143 Non-Pulmonary cases were dealt with during the year and 500 names were removed by reason of :— Recovered, 27; died, 70; transferred to other areas and lost sight of, 76; Non-Tuberculous, 327.

At the end of the year there were 509 names on the register, comprising 381 Pulmonary cases, 103 Non-Pulmonary cases and 25 cases in which the diagnosis had not been completed.

Of eases on the Register on December 31st, 1936, 29 were receiving no form of treatment. The majority of these were following their ordinary occupations.

SANATORIUM TREATMENT.

Blackburn patients are admitted either to the Sanatorium Block at the Corporation Hospital, or to Meathop Sanatorium, Grange-over-Sands, where the Corporation reserves ten beds. The more advanced cases are received into the Corporation Hospital, the early cases, or those which have improved under treatment at the Corporation Hospital, being drafted to Meathop.

At the beginning of the year 26 males, 17 females, and two children were in-patients in the Sanatorium block; during the year 80 males, 42 females, and nine children were admitted; on December 31st, 1936, 17 males and nine females were still undergoing treatment. In the course of the year 73 males, 45 females, and 11 children were discharged. Sixteen males and five females died.

During the year the average number of beds occupied by Tuberculosis cases at the Corporation Hospital was 40.75.

The appended Table shows the condition of patients on discharge from the Sanatorium Block:—

			Disea Quiesce		Much Impro		No Char	ige I	Not 'ubereul	ous	Dead
Males		•••	12		38		20	• • •	3		16
Females	•••	• • •	13		22		6		4		5
Children	• • •		2		5	• • •		•••	4		
TOTALS		•••	27	•••	65		26		11	•••	21

At the commencement of the year four males and six females were inpatients at Meathop Sanatorium, while during 1936, 10 males and six females were admitted. At the end of the year five males and five females remained at Meathop. The appended Table shows the condition of patients on discharge from Meathop:—

)isease viescent		Much nproved	No	Chang	ie	Dead
Males	•••	•••	•••	2	•••	5	•••	2	•••	_
Females	•••	•••	•••	4	•••	1	•••	2	•••	_
								_		
				6	•••	ô	•••	4	•••	_
				_				_		_

Artificial Pneumothorax.—During the year nine inductions of artificial pneumothorax were carried out, the treatment being subsequently discontinued in one case. Two patients, in whose cases it was deemed advisable to attempt collapse therapy, refused treatment, and in one further case the attempts to induce pneumothorax proved unsuccessful.

Five patients were transferred to Meathop Sanatorium, where collapse was maintained, the remaining four attending the Corporation Hospital as out-patients for refills after their discharge. One out-patient was attending at the commencement of the year, and one patient was transferred from another authority, but subsequently left the area. In all 129 refills were carried out during the year.

NON-PULMONARY TUBERCULOSIS.

During the year nine deaths were ecrtified to be due to Non-Pulmonary Tuberculosis, compared with 17 in 1935, 11 in 1934, 12 in 1933, 19 in 1932, 18 in 1931, 18 in 1930, and 13 in 1929. The deaths were due to:—

					Male.	Female.
Tuberculous Meningitis	•••	•••	•••		1	0
Bone and Joint Tuberculosis	•••	•••	•••	•••	1	1
Intestinal Tuberculosis	•••	•••	•••		1	4
Tuberculosis of other organs	•••			•••	1	0

Thirty-six cases of Non-Pulmonary Tuberculosis were notified. The diagnoses were :—

				Male.	Female.
Tuberculous Glands of Neck	 	• •	 	8	6
Abdominal Tuberculosis	 		 	2	7
Tuberculous Joint Disease	 		 	3	0
Tuberculous Bone Disease	 		 	3	4
Tuberculous Meningitis	 		 	0	1
Kidney	 		 	1	0
Skin	 		 	0	1

BONE AND JOINT TUBERCULOSIS.

Twenty-five cases of bone or joint tuberculosis were examined by Dr. Briggs at the Special Orthopædie Clinic.

DENTAL TREATMENT OF TUBERCULOSIS PATIENTS.

The following Table gives details of Dental work carried out as part of the Tubereulosis Scheme:—

The Dental Surgeons earried out the following work in 1936:-

Number of Patients .	 		 	38
Permanent Teeth extracted		•	 	70
Temporary Teeth extracted			 	5
Permanent Teeth Filled .	 		 	3
Other Operations	 		 	8
Number of Sessions held .	 		 	12

The following treatment was earried out at Meathop Sanatorium by the Dental Surgeon attached to that Institution. The cost of this treatment was borne by the Health Committee.

Number of Patients Treated		 	 4
Part Dentures supplied	•••	 	 3
Permanent Teeth Extracted		 	 13

ULTRA-VIOLET LIGHT TREATMENT.

Particulars of the Ultra-Violet Light Treatment of Tuberculosis patients will be found in Table 86.

Public Health (Prevention of Tuberculosis) Regulations, 1925.

It was not found necessary to take any action during the year under the above regulations relating to tuberculous employees in the milk trade.

TABLE 59.

FORM T. 137/1931 MINISTRY OF HEALTH.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1930.

	Ę	LOTAL NOTIFICA- TIONS	89	17	 	27
	70	TOTAL ALL AGES	64	39	17	19
	NUMBER OF PRIMARY NOTIFICATIONS OF NEW CASES OF TUBERCULOSIS.	65—	ಣ	ି ।	1	-
	Тивек	55—	139	က	ŀ	1
NS.	SES OF	45—	6	က	1	1
FORMAL NOTIFICATIONS.	EW CA	35—	15	5	7	Ç1
VOTIE	s of N	25—	13	1.2	©1	74
MAL	ICATION	20—	9	∞	1	က
FOR	Notir	15—	4	ಬ	71	I
	RIMARY	10—	1	1	1	4
	3 OF P	52	1	ı	9	,
	NUMBEI	1	}	1	23	4
		-0	1	ı	1	1
		:		:	:	:
			:			:
		sa	:		:	Females
		PERIC	***	les	Vales	Fema
		AGE PERIODS	Male	Females	ary l	
		A	ary j		mom	•
			Pulmonary Males	:	Non-Pulmonary Males	
1			Pu		No	

Public Health (Tuberculosis) Regulations, 1924.

Number of cases of Tuberculosis remaining on the Register of Notifications kept by the Medical Officer of Health of the County Borough on the 31st December, 1936.

TOTAL		PULMONARY	•	N	RY.	
CASES.	Males	Females	Total.	Males	Females	Total
767	322	217	539	122	106	228

TABLE 60.

(FORM T. 145 OF THE MINISTRY OF HEALTH).

Tuberculosis Dispensary—Work Carried Out During the Year 1936.

PART "A"

	Pt	JLM)NAI	RY	Pı	No		RY	TOTAL				GRAND
Diagnosis	Ad M		Chi M		Ad M		Ch M	il'n F	Ad M		Chi M	l'n F	TOTAL
 A.—New Cases examined during the year (excluding contacts): (a) Definitely tuberculous (b) Diagnosis not completed (c) Non-tuberculous 	58 -	36	3 -		6 -	5 -	2 -	6 -	64 3 72	7	5 2 9	6 3 11	116 15 189
B.—Contacts examined during the year: (a) Definitely tuberculous (b) Diagnosis not completed (c) Non-tuberculous	1 -		1 - 1	1 1 1	1 1 1	-		1 -	1 3 9	- 2 13	- 3 7	1 2 33	2 10 62
C.—Cases written off the Dispensary Register as :— (a) Recovered (b) Non tuberculous (including any such cases previously diagnosed and entered on the Dispensary register as tuberculous)		8	2	1	2	1	3	6	6	9	5	7	27
D.—Number of Persons on Dispensary Register on Dec. 31st: (a) Diagnosis completed (b) Diagnosis not completed		142	13 -	15	14	18	42			160	'	44	484 25

1.—Number of Cases on Dispensary Register on January 1st 611

2.—Number of Cases Tran	nsferred from c	other Areas	s and C	asos re	turned	after	
Discharge under H	ead 3 in provid	ous years	•••	•••	•••		4
3.—Number of Cases Trans	ferred to other.	Arcas, case	s not de	siring fu	irthe r a	ssist-	
ance under Scheme	and cases " lost	sight of "	•••	•••	•••	•••	76
4.—Cases written off during	year as Dead (a	ll causes)					70
5.—Number of Attendance	s at the Dispen	sary (inclu	ding Cor	ntac t s)		•••	4316
6.—Number of Insured Pers	sons under Dom	iciliary Tre	atment	on 31st	Decem	ber	226
7.—Number of Consultation	ns with Medical	Practition	ers: (a)	Person	nal		275
			(b)	Other	•••		107
8.—Number of Visits by T	Cuberculosis Off	icer to hor	nes (incl	luding p	ersonal	con-	
sultations)		•••		•••	•••	•••	35
9.—Number of Visits by	Nurses or Heal	th Visitors	s to Ho	mes for	Dispe	nsary	
Purposes	•••				•••	•••	2338
10.—Number of :—(a) Spec	imens of sputun	n, etc., exa	mined	•••	•••	•••	485
(b) X-R	ay Examination	ns made in	connect	ion with	Dispe	nsary	
work	·	•••		•••	•••	•••	519
11.—Number of "Recovered	l '' Cases restore	ed to Dispe	nsary Re	egister	•••		1
12.—Number of "T.B. Plus	" Cases on Disp	pensary Re	gister on	Decem	ber 31s	t	200
[In Form T. 145 abo	ove it will be	noted the	at the r	number	of co	ntaets	who
attended the Dispensary	was 74, a fig	ure which	is adn	nittedly	on th	e low	side.
Great difficulty is experi	cneed (as is s	hown by	the fac	et that	the T	ubere	nlosis

Nurse visited 3,123 contacts) in securing the attendance of contacts at the

Dispensary.]

TABLE 61. (FORM T. 145 OF THE MINISTRY OF HEALTH).

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PART " G."

TREATMENT IN THE INSTITUTION	More than 12 rotals 2 2 2	Ch. M. F. Ch. M. F. Ch. $\vec{\mathbb{G}}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 2 74 47 2 123					
_	6-12 months	M. F.	401	: 03 :	: - : c1 - :	5 :	12 13					
RESIDENTIAL	months 6	Ch.	:	: : :	: : :	: : :	2	: : :	: : :	: : :	- : :	-
OF RE	3-6 mo	M. F.	2 6 1 3 3 3 3			100	32 17				: -:	
DURATION		Ch.	:::	:::	:::	:::	:	: : :	:- :	: : :	: : :	-
DUR	Under 3 months but exc'g 28 days	E	400 :	 -	:01 :	: : 63	15	:::	: : :	: : :	:::	
_	Und but e	H.	ा 4 ७१	: c1 ;	1 22 -	: c	29					
	Condition at time of	,	Quiescent Not Quiescent Died in Institution	Quiescent Not Quiescent Died in Institution	Quiescent Not Quiescent Died in Institution	Quiescent Not Quiescent Died in Institution	(PULMONARY)	Quiescent Not Quiescent Died in Institution	Quiescent	Quiescent Not Quiescent Dicd in Institution	Quiescent	
	Classification on Admission to the	Institution	Class T.B. Minus	Class T.B. plus.	Class T.B. plus.	Class T.B. plus. Group 3	TOTAL (PUL	Bones and Joints	Abdominal	Other Organs	Peripheral Glands	

TABLE 62.

(FORM T. 145 OF THE MINISTRY OF HEALTH).

PART "C."—Number of Beds Available for the Treatment of Tuberculosis on the 31st December in Institutions Belonging to the Council.

	Pulmon	For NARY CASES		R Non	
Name of Institution	Adults	Children	Adults	Children	Total
Corporation Hospital	. 54	4		6	64
Meathop Sanatorium Queen's Park Hospital	. 10		4	15	10 37

TABLE 63.

PART "D."—RETURN SHOWING EXTENT OF RESIDENTIAL TREATMENT DURING THE YEAR 1936.

		In Institu- tions on Jan. 1st	Admitt'd during the year	Dis- eharged during the year	Died in the Institutions	In Institu- tions on Dee. 31st.
1	Adult Males	1	16	16	•••	1
Doubtfully Tuberculous Cases Admitted for	Adult Females.	1	12	13	•••	
Observation 7	Children	1	6	6	•••	1
\	Total	3	34	35		2
(Adult Males	29	81	72	16	22
Number of patients	Adult Females.	22	40	44	5	13
suffering from Pulmonary Tuberculosis	Children	•••	2	2	•••	•••
l	Total	51	123	118	21	35
	Adult Males		2	2	•••	•••
Number of patients	Adult Females.					•••
suffering from Non- Pulmonary Tuberculosis	Children	1	2	3	•••	
a	Total	1	4	5		
GRAND TOTAL		55	161	158	21	37

TABLE 64. (FORM T. 145 OF THE MINISTRY OF HEALTH).

PULMONARY TUBERCULOSIS.

]	Previ	ous t	o 19 3	6.			19	936.	
	Condition at the time of			But	Cla	ss T	В. р	lus.	snı	Cla	ss T.	В. р	lue.
	last record made during year to which the Re relates.	the eturn		Class T.B. minus	Group 1	Group 2	Group 3	Total (Class T.B. plus)	Class T.B. minus	Group 1	Group 2	Group 3	Total (Class T.B. plus)
ster		Adults	M.	19	5	8	3	16					
Regis	DISEASE ARRESTED	Adı	F.	11	1	2	2	5					
ary l		Chil	dren	12									
Dispensary Register December.		Adults	M.	32	14	33	11	58	16	3	9	11	23
Disp Dece	DISEASE NOT ARRESTED .	Adı	F.	16	15	25	2	42	18	2	3	6	11
on lst		Chil	dren	6				•••	2			•••	
Remaining on on 31st	Condition not ascertained year	dur	ing 	49	23	14	8	45				•••	•••
(a) Ren	Total on Dispensary Reg December 31st	ister 	on 	145	58	82	26	166	36	5	12	17	34
gister om.		Adults	М.	24		1		1	•••				
Reg erefr	Discharged as Passyoned	Adı	F .	21	3	3		6					
sary of th	Discharged as Recovered	Chil	dren	9	•••	1		1	•••	•••		•••	•••
Dispensary Register (a) removal therefrom.	Lost sight of or otherwise r from Dispensary Registe		ed	582	107	74	34	214	3	•••		•••	
on]		Adults	M.	70	50	151	287	488	9	•••	1	9	10
	Dead	Adı	F.	57	40	129	209	378	1	•••		5	5
b) Not now and reasons		Chil	dren	32	7	33	38	78					
(b) Not now and reasons	Total written off Dis Register	pense	ary 	795	207	392	568	1166	13		1	14	15
	GRAND TOTALS	•••		940	265	474	593	1332	49	5	13	31	49

TABLE 64—Continued

NON-PULMONARY TUBERCULOSIS.

				F	revio	ous to	193	6.		1	936.	(
	Condition at the time of last record made during year to which the Ro relates.		,	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.	Bones and Joints.	Abdominal.	Other Organs.	Peripheral Glands.	Total.
Register		Adults	М.	2				2		•••	•••	2	2
Reg	Disease Arrested	Ad	F.		1	3	2	6		1		1	2
sary		Chil	dren	2	10		14	26		1	1	2	4
isper eeem		Adults	M.	• • •					2		1		3
g on Dispensary 31st December.	Disease Not Arrested	Adı	F.	1		2	1	4				2	2
ng o 31s		Chi	ldren	1	5	4	14	24	1	2		2	5
Remaining on Dispensary on 31st December.	Condition not ascertained year	dur 	ing 	8	4	4	7	23		•••			
(a) R	Total on Dispensary Reg December 31st	ister 	on	14	20	13	38	85	3	4	2	9	18
	sferred to Pulmonary											•••	•••
gister from.		Adults	М.	3	1		3	7				•••	
Re	Discharged as Recovered	Ad	F.	1	1	1	5	8			•••		•••
sary		Chil	dren	5	5	4	24	38				•••	
Dispensary Register removal therefrom.	Lost sight of or otherwise a from Dispensary Regi	remo ister	ved	76	70	59	255	460	1		•••		1
on s for		Adults	M.	22	16	8	5	51	•••	1	•••	•••	1
	Dead	Adı	F.	14	17	10	2	43				•••	
ot r		Chil	dren	18	34	27	6	85	•••	•••	•••	•••	
(b) Not now and reasons	Total written off Dis Register	-		139	144	109	300	692	1	1	•••		2
Gi	RAND TOTALS (excluding transferred to Pulmona	thory)		153	165	123	338	779	4	5	2	9	20

TABLE 65.

TABLE SHOWING THE IMMEDIATE RESULTS OF TREATMENT OF PATIENTS DISCHARGED FROM THE BLACKBURN CORPORATION HOSPITAL DURING 1936.

ا	TOTAL	19 22 7	111	16 2	28.2	122			OIALS	111	35
PULMONARY TUBERCULOSIS.—Duration of Residential Treatment.	han hs.	Gh			i 1 1	1	SIS				
Tre	More than 12 months.	E : 1 1	* 1 1	1 1 1	: 1 1	1	COLO	y Weeks	Ch.		
entia	M 12	M	1 1	1 1 1	:	-	UBER	Stay Over 4 Weeks	표	1 1 1	
Resid	hs	ġ l ı ı	1 . 1	1 1 1	1 1 1		ARY J	0	M.	1 1 1	1
on of	6-12 months	F. 60 C1	 :		1 - 1	10	TEMON	/eeks	Ch.	111	ı
durati	6-12	N. 2 - 1	1 63 1	1	1 7 ,	10	FOR NON-PULMONARY TUBERCULOSIS	Stay Under 3 Weeks	F4	1 1 1	1
is.—L		Ch. 1	1 1	1 1 1	1 1 1	2 1	ORN	Unde	M.	1 1 1	1
SOLOS	3-6 months.	1				1		ks	Ch.	ા લા લા	9
UBERC	-6 m	Fi ro to			——————————————————————————————————————	15	COLO	Stay Over 4 Weeks	E.	o1 4 e1	ဘ
RY T		N 0 0 1	I			29	UBER	S)ver	M.	 चः चः	
MONA	onths	Ch.	1 1 1	1 1	(i)	1	RY T		1	4. 4. 1	
Pou	Under 3 months	[4 4 1	1201	1 60 1	114	19	MONA	Week	Ch.	i 1 1	1
	Unde	M. 69	- c1 1	1 6	104	36	FOR PULMONARY TUBERCULOSIS	Stay Under 4 Weeks	E	4 1 -	20
- tu		; ; ;	::::	: : :	:::		Fo	Unc	M.	ಬ್ಲಾಣ	oo.
o wit to woiting	Condition at unie of Discharge.	Quiescent Not Quiescent Died in Institution	Quiescent Not Quiescent Died in Institution	Quiescent Not Quiescent Died in Institution	Quiescent Not Quiescent Died in Institution	TOTAL		DIAGNOSIS ON DISCHARGE FROM OBSERVATION		TUBERCULOUS Non-Tuberculous Doubtful	TOTALS
		Cases in which Tubercle Bacilli have never been found	CLASS B 1 Early cases in which Tubercle Bacilli have been found	CLASS B 2 Intermediate Cases in which Tubercle Bacilli have been found	CLASS B 3 Advanced cases in which Tubercle Bacilli have been found			DIAG		OBSERVATION TUB CASES. Dou	

TABLE 66.

ANNUAL RETURN SHOWING THE IMMEDIATE RESULTS OF TREATMENT OF PATIENTS DISCHARGED FROM MEATHOP SANATORIUM DURING THE YEAR 1936.

ند	Total.		eo − 1	m	<u> </u>	1 10 1	16
atmen	n 12	Ch.	1 1 7	() 1	1 1 1	111	
al Tre	More than months.	<u> </u>	1 1 1	1 1 1	1011	1 1 1	61
sidenti	Mor	M.	1 1 1	1 1 1	1 1 1	1 1 1	
of Res	ths.	ch.	: 1 1	1 1 4	111	1 1 1	
ation	6-12 months.	표.	- 1	1 1 1	61	+	က
-Dur	6-1	M.	1) 1	1 1 1	1 1 1	-	ı
PULMONARY TUBERCULOSISDuration of Residential Treatment.	ths.	Ch.	1 1 1	1 4 4	1 1 1	111	1
BERCU	3-6 months.	표.	⊢ ! 1	1 1 1		 	က
ty Tu	, m	M.	1 1	1 1 1	ı 	· e1	4
MONAF	onths	Ch.	1 1 1	1 1 1	1 1 1	4 1 4	ı
Pur	Under 3 months	Œ	1 ! !	1 + 1		1 1 1	ı
	Unde	M.	- 1 1	1 1	1 1 (က
9-0	5		: : :	::::		: : :	÷
t time). 9.		 rtion	 	 	 ition	:
i.	discharge.		t escent Institu	t sscent Institu	t sscent Institu	t sscent Institution	tal
Condition of time of	dis		Cases in which Tubercle Quiescent Bacilli have never been Not Quiescent found Died in Institution	CLASS B 1 Tubercle Bacilli have Not Quiescent been found Died in Institution	CLASS B 2 Intermediate Cases in Quiescent which Tubercle Bacilli Not Quiescent have been found Died in Institution	CLASS B 3 Advanced Cases in which Quiescent Tubercle Bacilli have Not Quiescent been found Died in Institu	Total
			en en en en en en en en en en en en en e	ch ve UNO	GZÖ	ch CNC	
			luberd er be	whi i ha	ses Baci	i ha	
		4	ich T e nev	B 1 in Bacilli	B 2 Cas ercle ound	B 3 ses ir Bacill	
		7, 800	n whi	CLASS B 1 Cases ir ercle Baci found	tass diate Tub	CLASS B 3 ced Cases isrcle Bacil found	
		٢	Lees in which Tubercle Bacilli have never been found	CLASS Trubercle I been found	C termed which have l	C lvance Tuber been f	
	1		Ç	Ħ T	III.	Ad	

TABLE 67.

SHOWING THE EXTENT OF RESIDENTIAL TREATMENT FOR PULMONARY TUBERCULOSIS DURING 1936.

			5	A dimittod	Disoborged	Died	Institutions
			In Institutions on Jan. 1st.	Admitted during 1936.	Disconarged during 1936.	Ded in the Institutions.	on Dec. 31st, 1936.
		M.	स	10	ō	1	ď
N. C. L. C.	Adults	井	9	9			ũ
Meathop Sanatorium		M.	1	l	ı	ı	1
	Children	Э	1	1	1	Ì	1 .
		M.	26	80	73	16	17
	Adults	E	17	42	45	ಸ	6
Corporation Hospital		M.	-	61	က	I	1
	Children	떈	г	L-	œ	-	1
TOTAL	:		55	147	145	21	36

TABLE 68.

CONDITION AT END OF 1936 OF PATIENTS TREATED AT AND DISCHARGED FROM THE BLACKBURN CORPORATION HOSPITAL

Year Dis- charged	At full work. No Symp- toms	At full work, but with difficulty	Not able to work full time owing to ill health.	able to work but able to get	Confined to the	Confined to bed	Died (not in the In- stitution at time of first admis- sion).	Cannot trace	Total.
1916	16	-	_		_	1	192	79	288
and previous 1917	_	_	_	1	_	_	29	8	38
1918	7	_		2		_	39	9	57
1919	16	1			_	_	48	8	72
1920	13	_	1		_	_	48	11	73
1921	16	1	5	2	1	_	47	5	77
1922	20	5	4	0	1	_	56	17	103
1923	25	4	2	6	_	_	69	17	123
1924	10	2	1	6	- 1	1	66	15	101
1925	11	4	1	2	2	_	5 9	23	102
1926	3	4	2	4	-		29	13	55
1927	12	2	1	4	1	_	15	10	45
1928	4	_	2	6	_		24	6	42
1929	1	1	3	4	_	_	18	4	31
1930	5	1	4	11	4	3	27	6	61
1931	7	7	9	41	4	2	36	8	114
1932	4	13	22	29	5	_	57	2	132
1933	8	8	5	9	1	1	31	1	64
1934	12	21	14	9	4	4	46	7	117
1935	16	3	5	14	3	3	29	4	77
1936	32	7	4	43	14	4	20	4	128
Total	238	84	85	193	40	19	985	257	1901
%	12.5	4.4	4 · 4	10 · 1	2 · 1	1.0	51.9	13.5	

TABLE 69.

CONDITION AT END OF 1936 OF PATIENTS TREATED AT AND DISCHARGED FROM MEATHOP SANATORIUM.

Year Dis- charged.	At full work. No Symptoms. 1	At full work, but with difficulty	to work full time owing to	Not able to work but able to get about 4	Confined	Confined to bed.	Dead	Can- not trace	Total.
1916	20		_			_	118	77	215
and previous 1917	1		_	1	_		21	13	36
1918	4	_	1	2	_		23	10	40
1919	ô	1	1	1	- 1	. —	21	18	48
1920	4	1	_	2	_		21	14	42
1921	9	1	1	3		_	13	15	42
1922	4		_			_	12	6	22
1923	2	1	1	4	_	_	9	7	24
1924	1			3		_	14	8	26
1925	2	1	-	1	_	1	16	4	25
1926	1	1	-	2	_	_	11	11	26
1927	4	-	1	5	_		6	3	19
1928	1	2	1		_		10	5	19
1929	1	1	* 1	1		1	8	-	13
1930	-	2	1	5		_	13	1	21
1931	1	2	2	3		_ ,	5	4	17
1932	1	2	2	8	1	_	4	5	23
1933	2	1	1	_	-	_	9	1	14
1934	4	1		2	2	_	4	2	15
1935	_	2	_	7	3	_	2	2	16
1936	4	1		9	1	1	3	1	20
Total	72	20	12	59	7	3	343	207	723
%	10.0	2 · 7	1.6	8 · 1	1.0	0 · 4	47.4	28.6	_

TABLE 70.

SUMMARY OF DISPENSARY STATISTICS AND OF HOME VISITING.

	1936	1935
Number of persons placed under observation for purpose of		
diagnosis	3 27	196
Number of persons for whom the period of observation		1
exceeded two months	93	48
Number of visits paid by the Tuberculosis Officer to the		1
homes of patients	35	55
Number of visits paid by Nurses to the homes of patients		1
for dispensary purposes	2338	2502
Number of attendances of patients at the Dispensary:—		
Insured	2942	3827
Not Insured	1374	2008
Total	4316	5835
Number of patients under Domiciliary Treatment:—		1
Pulmonary	192	164
Non-Pulmonary	72	50
Total	264	214
Number of reports received from practitioners in respect of		
patients on Domiciliary Treatment	35	72
Number of specimens of sputum examined in connection		
with the work of the Dispensary:		
Positive	133	88
Negative	352	335
Total	485	423
Number of houses disinfected during the year:—		
(i) On removal of patient to Hospital	97	48
(ii) On death	41	16
(iii) On changing address	3	3
Number of Reports made to Ministry of Pensions by the		
Tuberculosis Officer on general progress and capacity		
for work of Tuberculous Discharged ex-Service men	31	38
1		



PART VI.

Venereal Diseases.

VENEREAL DISEASES.

(a) The Royal Infirmary Centre:

Seven hundred and forty-five patients, of whom 390 were Blackburn residents, attended this Centre for the first time during the year. Of the Blackburn eases 114 were suffering from gonorrhea, 42 from syphilis, and 234 from conditions non-venereal.

The appended Table shows the number of new cases seen yearly at the Royal Infirmary since 1927.

Year.	Male.	Female.	Total.
1927	 300	 103	 403
1928	 349	 291	 640
1929	 380	 251	 631
1930	 365	 265	 630
1931	 384	 269	 653
1932	 440	 267	 707
1933	 412	 210	 622
1934	 365	 315	 680
1935	 44 0	 278	 718
1936	 429	 316	 745

The total number of attendances for all patients was 23,200, 12,412 of which were in respect of Blackburn residents. The aggregate number of inpatient days at the Royal Infirmary was 168 for Blackburn cases, and 169 for eases from other sources.

During the year 76 males and 21 females ecased to attend the Clinic before completion of the full course, and 84 cases, 40 males, and 44 females, discontinued attendance after completion of treatment, but before final tests for cure had been carried out.

For some time past the attendances at both male and female clinics at the Royal Infirmary have overtaxed staff resources. Since the appointment of Dr. Thomson her services have been available for duty at the female clinic with Dr. Baird, and the clinic has become less unwieldy.

No increase of staff has yet been possible at the men's clinie, where the attendances per session are sometimes as high as eighty. To reduce the average attendances it is proposed to hold an additional weekly session devoted to specialised forms of treatment and examinations, etc. The other two weekly sessions will be attended by eases which need only routine treatment. The

Infirmary Board of Management and the Town Council have agreed to the appointment of a Clinical Assistant for general duties at their Clinics. This appointment, together with the establishment of an additional session, will overcome certain of the difficulties with which your veneral diseases officer has had to cope.

It has for long been realised that the accommodation at the Royal Infirmary was scarcely suitable for the purposes of a large venereal diseases centre. The waiting room, for instance, is so situated as to deprive the patients of the privacy desirable for this type of case. In addition, the general lay-out of the department and the arrangement of the rooms not only involves a greater expenditure of time per case than in specially designed premises, but also makes it a matter of great difficulty for the venereal diseases officer to exercise that personal supervision which is essential for the efficient administration of the Clinic.

In view of the foregoing the Ministry were asked to send down an expert to confer with the officials concerned regarding the Venereal Diseases Scheme. Following his inspection representatives of the Corporation met members of the Infirmary Board of Management with a view to securing the erection of an ad hoc clinic in the Infirmary grounds. As a result of this discussion, plans and estimates are now being prepared.

(b) The Victoria Street Centre:

This centre is for the treatment of women maritally infected, and of children congenitally or accidentally infected. The Clinic forms part of the Maternity and Child Welfare Scheme, and all cases referred for treatment have passed through the Welfare Centres.

At the beginning of the year 11 females were under treatment for syphilis, and 47 females for gonorrhæa. In the course of the year the tollowing cases were dealt with for the first time:—Gonorrhæa, 26; syphilis, 2; non-venereal conditions, 58. The total number of attendances made was 1,238.

TABLE 71.

FORM V.D. (R) (REVISED). RETURN relating to all persons who were treated at the Treatment Centre at the Royal Infirmary, Blackburn, during the year ended the 31st December, 1936.

Totals	673	53	8 13 1 55	 183 45 429	ા	1443	512	Q4 :01 4 :01
Totals F.	308	6		50 38 193	:	633	231	
M.	365	14	30 10 4	133 7 236	61	810	281	8 + 19
Conditions other than Venereal M. F.	47	:	:::::		:	240	204	:::::
Conditic than M.	28	:	:::::		:	797	233	:::::
Gonorrhæa M. F.	168	4	:::::	38 38	:	260	18	:::::
Gono. M.	202	10	:::::	133	C)	359	34	::::::
ft ncre F.	:	÷	:::::	: : : :	:	:	:	:::::
Soft Chancre M. F	1	:	:::::	::::	:	1	:	:::::
hilis F.	93	ಸ್	33.	::::	:	133	6	. : : ₀ 8
Syphilis M. F.	129	4	8 10 30 4	: : : :	:	186	14	8 1 19
	1. Number of eases on 1st January under treatment or observation 2. Number of cases removed from the register	during any previous year which returned during the year under report for treatment or observation of the same infection 3. Number of cases dealt with for the first time during the year under report (exclusive of cases under Item 4) suffering	from :— Syphilis, primary secondary latent in 1st year of infection all later stages congenital	Soft Chancre Gonorrhea, 1st year of infection later Conditions other than venereal	4. Number of eases dealt with for the first time during the year under report known to have received treatment at other Centres for the same infection	TOTALS OF ITEMS 1, 2, 3 AND 4	5. Number of cases discharged after completion of treatment and final tests of cure or after diagnosis as non-venereal	b. Number of cases which ceased to attend before completion of treatment and were, on first attendance, suffering from:— Syphilis, primary

6 9#	84	61	689	1443	က္ဖ	a :	2.00		14188	9012	23200	15	337	E. 1-
:∞ ಣ	44	50	317	633	7		en (2)		71157	232	7389	က	72	Totals [.
38:	40	41	372	810	010	า	+ -		7031	8780	15811	15	265	T M.
:::	:	:	36	240	:	: :	: :		671	:	671	:	:	15 years and over I. F. 3
:::	:	:	31	264	:	: :	:::		564	•	564	:	:	15 J and M.
:∞≈	31	16	184	260	:	: :	: : :		3680	232	3912	1	28	and under 15 years M. F. 1 4
38 9	33	30	218	359	:	:	: : :		3534	8671	12205	-1	32	5 and 15 y M.
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: : :	13	4	97	133	1	:	:no €1		2806	:	2806	ତୀ	44	l year F.
:::	1-	11	122	186	©1 (21	:4-		2926	109	3035	∞	233	Under M.
Soft Chancre Gonorrhæa, 1st year of infection		8. Number of cases transferred to other centres or to institutions, or to care of private practitioners	9. Number of cases remaining under treatment or observation on 31st December	TOTALS OF ITEMS 5, 6, 7, 8 AND 9	10. Number of cases in the following stages of syphilis included in Item 6 which failed to complete one course of treatment:— Syphilis, primary	" secondary	", all later stages congenital	11. Number of attendances:—	(a) for individual attention of the medical officers	(b) for intermediate treatment, e.g., irrigation, dressing	TOTAL AITENDANCES	patients:— Total number of persons treatment during the year	(b) Aggregate number of "in-patient days" of treatment given	13. Number of cases of congenital syphilis in Item 3 above classified according to age periods

TABLE 71—Continued.

14. Chief preparations used in treatment of Syphilis:—(a) Names of preparations	Approved Co Neokharsiv Sulfarsenol, Kharsulpha	Approved Arsenobenzene Compounds Neokharsivan, Stabilarsan, Sulfarsenol, Silver Salvarsan, Kharsulphan, Myo-Salvarsan		Others Mercury Trypobromide Pil. Hydrarg. Hyd. č Créta.	Bismuth Bicreol Iodoform Bismuthate Bismostab Quinine Bivatol
(b) Total number of injections given (out-patients)		1652	95	÷	Stabismol Bismogenal
15. Pathological Work:—(a) Number of specimens examined at and by the medical officer of the treatment	Microscopical for for Syphilis Gonorrhæa		Cultural for for Gonorrhœa Syphilii	SERUM for Syphilis Gonorrhæa	Cerebro- Others for spinal diagnosis of fluid Veneral Disease
centre centre	:	:	:	:	:
(b) Number of specimens from patients attending at the centre sent for examination to an approved laboratory.	13	2231 9	94 875	9	41 28

88:88:88

STATEMENT SHOWING THE SERVICES RENDERED AT THE TREATMENT CENTRE DURING THE YEAR, CLASSIFIED ACCORDING TO THE AREAS IN WHICH THE PATIENTS RESIDED.

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		:	:	:	÷	:	:	:
	Preston	:	: '	77	:	ଦୀ	ç	:
	Гапсазhire	46	: ;	112	195	353	10766	169
	Вівскритп	42	:;	114	234	390	12412	168
Name of County or County Borough (or Country in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings	a	Syphilis	Sort Chancre	Gonoffnæa	Conditions other than venereal	TOTAL	B. Total number of attendances of all patients residing in each area	C. Aggregate number of "In-patient days" of all patients residing in each area

DOROTHEA I. BAIRD, A. Sebba, (Signed)

Medical Officers of the Treatment Centre.

February 15th, 1937.

TABLE 72.

FORM V.D. (R) (REVISED).

RETURN relating to all persons who were treated at the Treatment Centre at the Health Department Clinic, Blackburn, during the year ended the 31st December, 1936.

nuary under		Outor vilaii	CTRICT	
turnder 11		venereal M	A F	
egister turned tunned tunnet turned tenent e first ffering				Lotals
		:	58	58
the first out (ex- suffering				
ort (ex- suffering		:	6	9
suffering				
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ection		:	:	:
ection		:	:	:
the first t. known Centres		:	:	:
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the first t known Centres 13 79 comple. cure or attend ad were, 6		:		16
the first t known Centres 13 79 comple. cure or 6 attend ad were,		:	10	10
the hrst t known Centres 13 79 comple. cure or 6 attend ad were,		58	58	58
Centres 13 79 comple 6 attend ad were,				
t 13 79 comple. cure or attend ad were, 6				
complecture or		:	:	:
comple- cure or 6 attend ad were,	62	58	150	150
attend 6 d were, 6				
attend d were, :		00 10	1 2	0
d were,:———————————————————————————————————			*	* 0
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Secondary				:
of infection				:
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TABLE 72—Continued.

14. Chief preparations used in treatment of Syphilis:— (a) Names of preparations	Approved Arsenobenzene Compounds Neokharsivan, Stabilarsan, Sulfarsenol, Myo-salvarsan	obenzene Others ds abilarsan,	Mercury Pil. Hydrarg. Hyd. ē Creta. Mercury	Bismuth Bicreol.
(b) Total number of injections given (outpatients and in-patients)	50	:		131
15. Pathological Work:—	MICROSCOPICAL	Cultural	SERUM	Others for
(a) Number of specimens examined at and by the medical officer of the treatment	Syphilis Gonorrhæa	ğ	ğ	Venereal Disease
centre	:	:	:	:
(b) Number of specimens from patients attending at the centre sent for examination to an approved laboratory.	428	ŧ	46	÷
		1		

STATEMENT SHOWING THE SERVICES RENDERED AT THE TREATMENT CENTRE DURING THE YEAR, CLASSIFIED ACCORDING TO THE AREAS IN WHICH THE PATIENTS RESIDED.

Тоғал	C1	26 58	98	1238	:	1
	:		:	:	:	
Асстіпусоп	:	: :-	1	οı	;	
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Сјаутоп-1е-Dаје	:	: : : -	1	00	:	
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eroold-ol-notysiO	:	: :- :	1	16	:	
Oherry Tree	:	: :- :	ı	-	:	
Бlаскburn	-		77	1200	:	
Name of County or County Borough (or Country in the case of persons residing elsewhere than in England and Wales) to be inserted in these headings are found to be suffering from :—	Sabile	Soft Chancre	TOTAL	B. Total number of attendances of all patients residing in each area	C. Aggregate number of "In-patient days" of all patients residing in each area	

Medical Officer of the Treatment Centre. DOROTHEA I. BAIRD,

(Signed)

29th January, 1937.

BLACKBURN ROYAL INFIRMARY-V.D. Beds: Male 2; Female 2.

PARTICULARS OF STAFF.

	Duties.	If Employed Whole or Part- Time on Duties in V.D. Centre.
Medical Officers— Dr. A. Sebba. Dr. D. I. Baird	In charge of Male clinic. In charge of Female clinic	Part-time.
Resident Medical Officers	Assist at male clinics	Part-time.
Nurses—Two	To prepare for and assist at clinics	One whole time. One at female clinic only.
Male Attendants—Two	To prepare for and assist at male clinics. Do irri- gations, &c., and general porter's work in connec- tion with clinics.	One nearly whole-time and evenings and week-ends and one at clinics only.
Dispenser—One	General Dispensing duties	Four clinics per week.
Clerk	Preparation of statistical returns and general clerical duties	Part-time.

Patients from Blackburn attended the following centres for treatment during the year :—

			Gonorrh xa .	$Non \cdot Vener$	Non-Venereal		
Preston			 •••		 •••	•••	1
Salford	•••	•••	 •••		 1	•••	
Bolton			 	1	 •••		•••

PART VII.

Maternity and Child Welfare.

ANTE-NATAL WORK.

Since June, when Dr. Sheila Thomson commenced duty, three Ante-Natal Clinies have been held each week, instead of two as formerly.

This extra session has relieved overerowding, reduced waiting to a minimum, and has enabled the staff to give more individual attention to the mothers than had been possible hitherto.

The numbers of attendances and of individuals attending were higher than in 1936, although the number of eases referred by midwives have again been disappointingly low.

The number (37) of abnormal eases seen at the Clinie was less than in 1936 (57 eases), and represents an abnormal rate of $5 \cdot 6$ per eent. of eases examined.

TABLE 73.

No. of Sessions held					•••	•••	125
No. of Attendances made	•••	•••	•••	•••	•••		2672
No. of Individuals	•••				•••		698
No. of Normal Labours	•••	•••	•••			•••	448
No. of Abnormal Labours	١	•••	•••		•••		37
No. Non-pregnant	•••						65
No. Undelivered at End	f 1936	•••			•••	•••	148
Sent by Health Visitors	•••	•••		• • •	• • •		112
Sent by Matron, Springfie	ld						123
Sent from various sources							153
Sent by Doetors		•••		•••	•••	•••	54
Sent by Midwives						•••	56
Women who came on their	r own	initiati [.]	ve		•••		200
Primigravidæ Examined	•••					•••	231
Multigravidæ Examined	•••		•••				402
Multigravidæ undelivered	at end	of yea	r		•••	•••	94
Primipara undelivered at				•••	•••	•••	54

The 37 abnormal eases were as follows:—

Instrumental	• • •	•••		4	Oecipito Posterior	•••	•••	•••	2
Still Births				7	Eelampsia			•••	3
Caesarean Section	(for	Placenta	ı		Miscarriage	• • •		•••	4
Praevia)		• • •		1	Twins	•••		•••	3
Premature Births		•••	•••	2	Contracted Pelvis		•••		1
Breech				4	Foetal Deformities			•••	3
Albuminuria				3					

POST-NATAL WORK.

A Post-Natal Clinic was begun on the 29th June, and is conducted once weekly. Particulars of this Clinic are given in the appended Table:—

No. of Sessions held		•••			• • •	•••	22
No. of Attendances made	•••	•••		•••	•••	•••	90
No. of Individuals			• • •		•••	•••	70
Sent by Health Visitors	•••	• • •		•••		•••	12
Sent by Matron, Springfic	dd	•••	•••	• • •	•••	•••	27
Sent by Doctors	• • •	•••	•••	•••	• • •	•••	6
Sent by Midwives	•••	•••			•••	•••	3
Women who came on the	ir owr	initia	tive	•••	• • •	•••	5 .
Sent by others	• • •	•••	•••	•••	•••	• • •	17
No. of Abnormal Cases		•••	•••	•••	•••	•••	27
No. of Cases in which no	abnor	mality	was fo	und	• • •	•••	43

The 27 abnormal cases were as follows:—

Retroversion of th	e uter	us			• • •	•••		5
Prolapse of the ute	erus			•••	•••	•••	•••	8
Leucorrhoea				•••	•••		•••	8
Abscess of Bartho	lins gl	and	•••	•••	•••	•••	•••	1
Dysmenorrhoea	•••		•••		•••	• • •		1
Pruritus ani	• • •	•••	•••	•••	•••	•••		1
Cystitis	•••		•••		•••			1
Myocarditis	• • •	•••	• • •	•••	•••	•••	•••	1
Chronic Nephritis	•••	• • •	•••	•••	•••	•••	•••	1

Nine cases were referred to their private doctors.

The majority of the patients attend for a routine post-natal examination, not because of any abnormal sign or symptom; therefore, most patients attend the Clinic once only, as can be seen from the figures above.

The fact that the average attendances at the Clinic is low is due to two factors, the first, and less important, being that provision of this facility is not, as yet, widely known. Time will remedy this defect and lead to increased attendances of those willing to take advantage of measures designed for their benefit. On the other hand there are many newly-delivered mothers who, though having secured appropriate ante-natal attention, yet ignore the importance of post-natal care. To some extent this apathetic attitude is understandable, and for that reason tactful following-up and advice is necessary if the post-natal clinic is to take its rightful place in your maternity service.

SUPERVISION OF MIDWIVES.

This work is undertaken by Dr. Thomson, assisted by the Scnior Health Visitor, both of whom pay regular visits to the homes of the Midwives.

Forty-seven midwives notified their intention to practice during 1936. Eighteen of these are attached to the District Nurses' Home. All are trained Midwives and hold the Certificate of the Central Midwives' Board. During the year four Midwives left the Borough, leaving 43 on the register on December 31st, 1936. (29 Midwives, 14 District Nurses).

One hundred and fifty-eight visits were paid to the Midwives' homes, of which six were special visits. Thirty-nine were ineffective.

Bags, ease registers and Ante-Natal records are inspected at each visit.

The Ante-Natal records, in some cases, are well kept, and show greater interest in the Ante-Natal care of the patients, although much needs to be done to bring this important part of midwifery to the necessary standard of efficiency.

Two Midwives attended a Post Graduate Course at the Liverpool Maternity Hospital for a period of one month each, all expenses in connection with their attendance being borne by the Local Authority.

During the year a course of lectures was again given to local Midwives. These lectures, which are arranged by the Maternity and Child Welfare Committee, were well attended and provoked useful and stimulating discussion.

The best thanks of the Committee are due to the lecturers, all of whom acted in an honorary capacity.

A list of the lectures is appended:—

- Dr. V. T. Thierens—" Baeteria in the eausation and prevention of disease."
- Mr. A. A. Gemmell (Hon. Surgeon Women's Hospital and Maternity Hospital, Liverpool)—" Post-Natal Care."
- Dr. R. J. Minnitt (Hon. Anæsthetist, Liverpool Royal Infirmary, etc.)—" The Use of Analgesia in Labour." (Hustrated with einematograph).
- Dr. R. W. Addis (Hon. Gynæeologist, Salford Royal Hospital, etc.)—-" Some Midwifery Emergencies."
- Dr. R. J. Clarke (Blackburn)—" A Study of the Female Pelvis."
- Mr. H. C. Lees (Hon. Surgeon, Blackburn and East Laneashire Royal Infirmary)—" Pregnancy, Labour, and Care during the puerperium."

MEDICAL AID FORMS RECEIVED DURING 1936.

	MEDICAL IVI	1, ,1	CHAILS 3	LC LO LIA	1110 1	, 0 101210		0.		
Pregn	nancy—									
	Varicose Veins		• • •					2		
	Albuminuria					• • •		24		
	Puffiness of hands			•••		•••		2		
	Ante-Partum baci							- 8		
				• • •	•••	•••	•••	2		
	Hyperemesis		•••	•••	•••	•••	• • •	1		
	Threatened Miseau		• • • •	•••	• • •	•••	* * *			
	High Temperature	,	•••	•••	•••	• • •	• • •	1		
	Miscarriage	•••	•••	•••	• • •	•••	• • •	2		
	Hydramnios	• • •	•••	• • •	•••	•••	• • •	3		
	Others	•••	•••	•••	•••	•••	• • •	4	_	49
Labor	ır—									
	Contracted Pelvis						•••	$_2$		
	Breech		•••	•••	•••	•••	•••	10		
	Complicated Breed							4		
			•••	•••	•••	•••	•••	5		
	Transverse	•••	•••	•••	•••	•••	•••	$\frac{3}{2}$		
	Occipito Posterior		• • •	•••	•••	•••	•••			
	Delayed Labour	•••	•••	•••	•••	• • •	• • •	44		
	Obstructed Labour		•••	• • •	•••	•••	•••	3		
	No presenting part		•••	•••	•••	•••	• • •	7		
	Early rupture of n		ranes	•••	•••	•••	•••	3		
	Adherent Placenta	•••	•••	• • •	•••	•••	•••	3		
	Prolapse of Cord	• • •		• • •	•••	•••	•••	1		
	Uterine Inertia	• • •		• • •	•••	•••		2		
	Retained Membrai	ies	•••			•••		2		
	Torn Perineum							168		
	Post partum haem	orrha	ige					9		
	Complete inversion	ı of u	iterus					1		
	Others				•••	•••	•••	12	_	278
Duan	anian.									
raerp	erium—							1		
	Epileptie fit	•••	•••	•••	•••	•••	• • •	1		
	Phlebitis	•••	•••	•••	•••	•••	•••	2		
	Mastitis	•••	•••	• • •	•••	•••	•••	7		
	Pyrexia	• • •	•••	•••	•••	•••	•••	18		
	Sub-involution	• • •	•••	•••	•••	•••	• • •	2		
	Varicose Veins	•••	• • •	•••	•••	•••		1		
	Cardiac symptoms	•••	•••		• • •			2		
	Others			•••	•••			13	_	46
Baby-										
	White Asphyxia		•••					1		
	Hare-lip			•••	•••	•••	•••	$\frac{1}{2}$		
	Eye Discharge	•••	•••	•••	•••	•••	•••	7		
		•••	•••	•••	•••	•••	•••			
	Convulsions	•••	•••	•••	•••	•••	• • •	1		
	Talipes		•••	•••	•••	•••	•••	1		
	Feebleness of infan	t	•••	•••	•••	•••	•••	18		
	Phimosis	•••	•••	•••	•••	•••	•••	2		
	Spina-bifida	•••	•••	•••	•••	•••	•••	4		
	Prematurity	•••	•••	•••	•••	•••	• • •	13		
	Others	•••	•••	•••	• • •	•••	•••	2		51
		Г	OTAL	• • •	•••	•••		•••	• • •	424

Other Forms received according to the requirements of the Central Midwives' Board:—

Artificial feeding	•••			•••	•••	12	
Still-births		•••	•••		•••	14	
Laying-out a dead	body	• • •	•••	•••	•••	1	
Notification of deat	hs of infants					5	32

MIDWIVES ACT, 1936.

Approximately 950 domiciliary confinements (attended by District Nurses and Independent Midwives) take place each year in the Borough, 850 of which are actually conducted by midwives, the remainder being attended by midwives acting as maternity nurses.

An average of 520 midwifery cases are admitted each year to maternity beds provided by the Local Authority, or at the Royal Infirmary.

Assuming that a midwife is eapable of attending 70 eases as a midwife and 30 eases as a maternity nurse during the year, ten midwives are required for domiciliary service.

The Council decided that only four midwives should be engaged in the first instance. This number was suggested for the following reasons:—

- (1) The number of maternity eases admitted each year to local hospitals is not stabilised, and the yearly average (520) of hospital eases, taken over three years, is not to be regarded as a peak figure.
- (2) After the Municipal Midwifery Service is established many women will-still continue to employ independent midwives.
- (3) Not all local independent midwives will be absorbed into the salaried service and, whilst certain of them will cease to practice as provided for in the Act, many will continue in independent practice, and thus reduce the number of cases to be attended by the salaried service.

The Council decided that arrangements be made with the District Nursing Association for the employment by the Association for a period of twelve months of a sufficient number of midwives for domiciliary midwifery, and that four midwives be so employed as an initial measure.

The midwives will be remunerated at the same rate as the Health Visitors.

SPRINGFIELD MUNICIPAL MATERNITY HOME.

Number of Maternity Beds in the Institution (ex and Labour Beds)	clusive 	of Isol	ation 	17
Number of Maternity Cases admitted during the Y	Zear .		•••	301
Average Duration of Stay	•••			14 Days
Number of Cases Delivered by :—				
(a) Midwives		•••	•••	222
(b) Doetors	•••	•••	•••	37
Number of Cases in which Medical Assistanco was so	ought b	y a Mi	dwife	
in Emergency	•••	• • •	•••	35
Number of Cases Notified as :—				
(a) Puerperal Fever	•••	•••	•••	1
(b) Puerperal Pyrexia	•••	•••	•••	9
Number of Cases of Pemphigus Neonatorum	•••	•••	•••	Nil
Number of Infants not entirely Breastfed while in	the Ins	titution	ı	27
Number of Cases Notified as Ophthalmia Neonator	um	•••	•••	3
Result of Treatment in each ease—				
Vision unimpaired 1; Vision impa	aired .	2.		
Number of Maternal Deaths	•••	•••	•••	1
Cause of death—				
Haemorrhage from Central Placenta Prac	via.			
Number of Infant Deaths :				
(i) Stillborn			•••	11
(ii) Within Ten Days of Birth	•••	•••	•••	8
Cause of death in each ease, and results of post-m (if obtainable)—	ortem e	examin	ation	
Stillborn—				
Excessive moulding of head—Instruments	al delive	ery	•••	1
Doetor's delivery, cord tightly round need	k			1
Hydroeephalus	•••	•••	•••	1
Macerated foetus (premature)		•••	•••	2
Hydramnios (foul smelling) Aeeidental A.P.H	•••	•••	•••	$ \begin{array}{ccc} & 1 \\ & 2 \end{array} $
Eelampsia		•••		2
Premature, Toxaemia of mother at 28 we			• • •	1
Prolapsed Cord	•••	•••	•••	1
Within Ten Days of Birth—				
Spina bifida and hydroeephalus	•••		•••	3
Anencephalus	•••	•••	•••	1
Premature Twins (6½ months)	•••	•••		2
$egin{array}{llllll} Atelectasis & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & \dots & $	•••	•••		1
Premature	•••	•••	•••	1

QUEEN'S PARK HOSPITAL.

30 327 dys.

 $\begin{array}{c} 232 \\ 15 \end{array}$

66

 $0 \\ 7 \\ 0 \\ 13 \\ 0 \\ 2$

21 8

Number	of Maternity Beds	in tho	Institu	tion (e	xclusiv	e of Isc	lation a	and	
Lab	oour Beds)				•••				
Number	of Maternity Case	s admi	tted di	iring t	lic year	•			
Average	Duration of Stay			•••	•••	•••			21.52
Number	of Cases Delivered	l by—							
(a)	Midwives								
(b)	Doctors								
Number	of Cases in which l	Medica	d Assis	tance v	vas sou	ght by	a Midy	vife	
	Emergency			•••	•••	•••	***	•••	
	of Cases notified a								
	Puerperal Fever					•••			
` '	Puerperal Pyrexis			•••		•••	•••	•••	
	of Cases of Pempl						•••	•••	
	of Infants not ent	-				o Ineti	tution	•••	
	of Cases notified a							•••	
							•••	•••	
	of Maternal Deatl se of Death in eac		•••	•••	•••	•••	•••	•••	
Can				.l	12	le a Limere	D1.1.1.	141.	
	Acute lobar pneur		, I; P	mona	try Em	Donsin	, Pmeb	IUS	
	femoral vein,								
	of Infant Deaths-								
, .	Stillborn		•••	•••	•••	•••	•••	•••	
(ii)	Within 10 days o	f birth		•••	•••	•••	•••	•••	
Still	lbirths—								
	1.—Premature.	Moth	er Feb	rile co	ndition	before	e delive	ery.	
	2.—Mother sligh							v	
	3.—Anencephali								
	4.—Mother adın			d in la	bour.	Primip	ara—e:	xten	ded
	breech.					•			
	5.—Premature—	-Mothe	er albu	ninuri	a.				
	6.—Premature,					er albu	minuria	ι.	
	7.—Placenta pra								
	8.—Mother eclar								
	9.—Mother had	-	3.						
	10Placenta pra	evia.							
	11.—Premature,		Moth	er sev	ere alb	umina	ria.		
	12.—Anencephalic	_							
	13.—Premature, 3			other	albumi	nuria a	nd seve	re ar	ıte-
	partum ha								
	14.—Premature.		Ü						
	15.—Mother adın	itted i	n laboi	ır. N	o F.H.	S. on a	admissi	on.	
	16.—Mother cont								
	17.—Premature,		-					rriag	es.
	18.—Mother seve					•		-	
	19.—Breech easy				_				3
	20.— Premature,						history	of si	ill-
	births.						3		
	21.—Protracted	leliver	y, due	to ol	d eervi	ieal sea	us.	Fore	eps

delivery.

Deaths within ten days of birth—

- 1.--Premature, 2-lbs. Twin.
- 2.—Premature, 2-lbs, 14-ozs,
- 3.—Convulsions.
- 4.—Inanition.
- 5.—Inanition. Face presentation. Mother primipara, aged 46.
- 6.—Placenta praevia. Premature, 1-lb. 11-ozs.
- 7.—Placenta praevia. 3½-lbs.
- 8.—Ante-partum haemorrhage. 4-lbs. 14-ozs.

PUERPERAL FEVER & PUERPERAL PYREXIA.

(a) Puerperal Fever;—

Three notifications were received during the year, all Borough eases. Of these two terminated fatally.

No. of cases notified		•••	•••	•••		•••	3
Borough cases			•••			•••	3
Out of Borough cases	s					•••	0
No. of cases attended	l by midwi	ife alone	•••	•••			1
No. of cases attended	l by a doct	tor and m	nidwife	•••			1
No. of cases attended	l in an Ins	titution	•••		•••		I
No. of cases treated i	in Hospital	l				•••	3
No. of cases which re	ecovered	•••	•••				1
No. of cases which di	ied			•••		•••	2

(b) Puerperal Pyrexia;—

Seventeen cases were notified throughout the year, three of which were in respect of out-of-Borough cases.

No. of cases notified	•••						17
Borough cases		•••	•••	•••			14
Out of Borough case	es		•••	•••	•••	•••	3
No. of cases attended	by Doctor	alone	•••			•••	0
No. of cases attended	l by Midwife	alone	•••				3
No. of cases attended	by Doctor	and Mic	dwife		•••	•••	5
No. of cases attended	l in Instituti	ion	•••				6
No. of cases treated a	at Home	•••					5
No. of cases treated i	n Hospital	•••				• • •	9
No. of cases attended	by District	Nurse			•••		2
No. of cases which re	covered			•••			12
No. of eases which di	ied	•••		• • •	• • •		2

The arrangements for dealing with eases of puerperal infection have been fully described in previous reports.

MATERNAL MORTALITY.

During the year a total of 13 deaths occurred in association with pregnancy, of which nine were in respect of Blackburn residents, the latter figure being equivalent to a maternal mortality rate of 6.31 per 1,000 births registered.

Appended are the eauses to which death was ascribed:—

Case I.—(a) Aente eardiae failure and dilatation; (b) Hyperpiesis; (c) Aeeidental hæmorrhage; (d) Post-partum debility.

Case II, III.—Puerperal Septieæmia.

Case V.—Pulmonary embolism following Cæsarean Section for Placenta Prævia.

Case VI.—(a) Pulmonary Embolism; (b) Thrombo-phlebitis of the leg.

Case VII.—Pnenmonia (probably secondary to nterine sepsis).

Case VIII.—Eelampsia of pregnancy.

Case IX.—(a) Collapse; (b) Ante-partum hæmorrliage; (c) Placenta prævia.

Case X.—This ease was the subject of a coroner's inquest, the verdiet returned being "Acute general peritonitis, but there is not sufficient evidence to show how the peritonitis was set up."

Appended is an analysis of the maternal deaths elassified as regards preventability.

Group "A."—Probably Preventable;—

(1) Cause of death; "(a) Acute cardiac failure and dilatation; (b) Hyperpiesis; (c) Accidental hemorrhage; (d) Post-partum debility."

This woman had booked neither doctor nor midwife, worked throughout her pregnancy, and ealled in a doctor only at the 36th week of pregnancy, when sho had an accidental ante-partum haemorrhage. She was immediately transferred to hospital and delivered of a still-born child. Her general condition appeared to improve, although there was some evidence of a nephritis.

She left hospital on the 11th day and died suddenly one month after confinement.

This death might have been prevented had the patient—

- (1) Received adequate ante-natal care; and
- (2) Remained in hospital for a longer period post-natally.

(2) Cause of death; " Eclampsia of Pregnancy."

Had booked a doctor, who examined her urine monthly.

At the 7th month she visited Springfield and gave history of oedema of feet for three weeks. Her urino was loaded with albumen, blood pressure 200, and suffered from headaches.

She was referred immediately to her own doctor, who prescribed treatment, and, following a fit, was transferred to hospital the same day, where, despite energetic treatment, she died the following day.

This death would probably have been prevented had the woman sought medical advice when she first noticed cedema of the feet and/or had the urino been tested more frequently than once monthly.

(3) Cause of death; "Puerperal Septicæmia."

Ante-natal care from fifth month onwards. Medical aid summoned at term for delayed labour, unsuccessful attempt at forceps delivery, transferred to hospital and delivered by Caesarean section 33 hours later. Death from purperal sepsis four days later.

Death might have been prevented by botter obstetric facilities at delivery.

(4) Cause of death; "Acute general peritonitis, but there is not sufficient evidence to show how the peritonitis was set up." (Open Verdiet at Coroner's Court).

This death was the probable result of illegal and instrumental interference. The ease was admitted to hospital, having had a 3—4th month incomplete abortion four days previously. Medical aid was not summoned until day of admission to hospital. On admission T. 100·8, and evidence of peritonitis. Uterus evacuated of foul debris the following day. Death occurred eighteen days later.

Group "B"—Possibly Preventable;—

(1) Cause of death; "(a) Collapse; (b) Ante-partum hæmorrhage; (c) Plaeenta prævia."

No ante-natal care until the 34th week of pregnancy, when her practitioner advised rest in bed, as her general condition was poor.

History of threatened miscarriage at 3rd month. Two days after first consulting doctor a severe haemorrhage occurred. Four days later placenta praevia and transverse presentation were diagnosed and, on the evening of this day, a second haemorrhage occurred, necessitating transfer to hospital. A second opinion was obtained and Caesarean Section considered inadvisable, in view of the patient's general condition. She was accordingly plugged and underwent blood transfusion. Death occurred the following day.

It is possible that death might have been prevented had—

- (1) Medical advice been secured following threatened miscarriage at the third month, and/or
- (2) Had Caesarean Section been carried out immediately after the diagnosis of the transverse presentation and placenta praevia.

(2) Cause of death; "Puerperal septicæmia."

This patient received ante-natal care from a midwife and was referred to a private practitioner for albuminuria in the 26th week of pregnancy.

At term forceps delivery of a high vertex was unsuccessfully attempted in patient's home and the woman was then transferred to Hospital and delivered by Caesarean Section. Puerperal sepsis supervened with death eight days after delivery.

This death might have been prevented by better obstetric facilities at delivery.

Group "C"—Apparently unpreventable;—

(1) Certified cause of death; "(a) Pulmonary embolism; (b) Thrombophlebitis of right leg."

Ante-natal history normal, apart from slight varicose vein of right leg. Normal delivery followed twenty-four hours later by thrombo-phlebitis of right leg. Eleven days later evidence of slight pulmonary embolism. Eighteen days after confinement a further embolism caused death.

(2) Certified cause of death; "(1) Pneumonia; (2) Parturition."

This patient received ante-natal care. A forceps delivery was followed by post-partum haemorrhage and manual removal of the placenta. On the second day of the puerperium the temperature rose and pneumonia developed on the following day. The patient died 14 days after delivery.

Pneumonia was probably secondary to a uterine infection.

(4) Certified cause of death; "Pulmonary Embolism following Cæsarean Section for Placenta Prævia."

This patient made a good recovery from the Caesarean Section, but suddenly collapsed and died on the 19th day of the puerperium.

TABLE 74.

MATERNAL MORTALITY

RATES PER 1,000 BIRTHS AND STILLBIRTHS REGISTERED.

YEAR	SEPSIS	OTHER	TOTAL	YEAR	SEPSIS	OTHER CAUSES	TOTAL
1891	1.71	2 · 70	4 · 41	1914	2 · 14	4 · 28	6.42
1892	$2 \cdot 31$	4.64	$6 \cdot 95$	1915	1 · 22	$2 \cdot 03$	$3 \cdot 25$
1893	0.51	4.38	4 · 89	1916	1.93	1.93	$3 \cdot 86$
1894	0.55	5 · 24	$5 \cdot 79$	1917	0.61	5 · 53 ·	$6 \cdot 14$
1895	$1 \cdot 79$	5 · 89	7.68	1918	1.29	5.80	$7 \cdot 09$
1896	1.40	7.03	8.43	1919	$2 \cdot 72$	3.28	6.00
1897	$1 \cdot 92$	2.75	$4 \cdot 67$	1920	1.06	4.59	$5 \cdot 65$
1898	0.54	3.00	$3 \cdot 54$	1921	2 · 37	1.97	$4 \cdot 34$
1899	$2 \cdot 19$	3 · 29	5.48	1922	0.45	6.43	6.88
1900	$2 \cdot 90$	1 · 16	4.06	1923	$2 \cdot 39$	4.29	6.68
1901	$2 \cdot 65$	$3 \cdot 54$	6 · 19	1924	1.51	$3 \cdot 53$	$5 \cdot 04$
1902	$3 \cdot 27$	4 · 73	8.00	1925	$2 \cdot 10$	3.68	$5 \cdot 78$
1903	1.50	6.05	7.55	1926	4.01	4.01	8.02
1904	0.96	4.19	5 · 15	1927	1.76	5.87	$7 \cdot 63$
1905	$3 \cdot 13$	6.57	9 · 60	1928	0.58	3 · 46	4.04
1906	1.46	3.80	$5 \cdot 26$	1929	1.93	$7 \cdot 72$	$9 \cdot 65$
1907	$3 \cdot 58$	5.07	8.65	1930	0.00	4 · 38	$4 \cdot 38$
1908	0.58	4.09	$4 \cdot 67$	1931	0.64	$3 \cdot 24$	3 · 88
1909	$2 \cdot 23$	4 · 14	6.37	1932	0.64	5.18	$5 \cdot 83$
1910	$2 \cdot 71$	4 · 41	$7 \cdot 12$	1933	0.00	4 · 11	4.11
1911	$1 \cdot 75$	5.60	$7 \cdot 35$	1934	1.98	4.63	$5 \cdot 95$
1912	1.09	3.28	$4 \cdot 37$	1935	$1 \cdot 34$	3.37	$4 \cdot 71$
1913	$1 \cdot 02$	4.46	5.48	1936	1.40	4 · 91	6.31
	1891—	1900			1.58	4.00	5.59
Average	1901—	1910			2 · 20	4.65	$6 \cdot 85$
	1911—	1920	• •		1.48	4.07	5.56
	1921—	1930	• •		1.71	4.53	$6 \cdot 24$

APPOINTMENT OF OBSTETRIC CONSULTANT.

In the Report for 1935 mention was made of the negotiations then proeeeding with reference to the joint appointment of a Consultant Obstetrician for duty in Blackburn and the surrounding area.

At several meetings attended by representatives of Blackburn, Darwen, the Lancashire County Conneil and the Blackburn and East Lancashire Royal Infirmary, close consideration has been given to the matter, and the bodies concerned are now proceeding with the appointment.

The terms of appointment provide for a minimum salary (payable jointly by Blackburn, the County Council and the Borough of Darwen), of £1,000 per annum. The gentleman to be appointed will be attached to the staffs both of the three participating Authorities and of the Royal Infirmary. He will conduct specialist clinics and be generally available for duty in the areas of the three Local Authorities. Subject to certain limits, private consultant work will also be allowed.

This appointment should prove of great help not only to the general public and private practitioners, but also to the Local Authorities concerned, and to the voluntary organisations interested in maternity work.

In Blackburn there is a sufficiency of beds, provided by the Borough and the Royal Infirmary, for the maternity needs of the areas to be served by the eonsultant. In addition, the number of women practising domiciliary midwifery in these areas is numerically adequate, and this service should attain a greater efficiency when the provisions of the Midwives Act, 1936, become effective.

The local maternity services are both comprehensive and efficient, yet the question must be asked whether the beds available are being used to the best advantage by Blackburn residents and by women in the contiguous areas for which Blackburn is the hospital centre.

The Obstetric Consultant will be in a position to gauge the obstetric requirements of a population of approximately 213,000. This opportunity, together with his right to admit eases to maternity beds provided at local institutions, should lead to a more economical and useful allocation of hospital beds than is at present the ease.

Investigation of maternity cases transferred to hospital as emergeneies shows the need of an expert maternity unit for domiciliary purposes. Many transfers are in a collapsed condition at the time of removal, and should receive expert attention at the place of confinement rather than be subjected to the risk of transport to hospital. In the past this service has been lacking, but the deficiency will be made good when your Obstetric Consultant assumes office. The officials of the three Authorities participating in the joint appointment have already considered a scheme for the provision of such an emergency obstetric unit better known, perhaps, as a "flying squad." Briefly, it is proposed that this "squad" be based on one of the local maternity units, and consist of the Consultant, together with a skilled midwife. The requisite instruments, dressings, etc., will be packed and ready at the base for transport to the case, together with the personnel, immediately following receipt of call.

NOTIFICATION OF BIRTHS.

The following Table illustrates the source of notifications during the year:—

		Live Births		Still Births	Total.
Doctors		16		1	17
Midwives				49	1252
Parents and others .	••	317	•••	21	338
Totals		1536	•••	71	1607

STILL BIRTHS.

The number of still births registered during the year was 75. The number of still-births allocated to the Borough during the year was 63. The Borough cases were investigated with a view to ascertainment of cause. The appended Table gives particulars with reference to possible and probable causes:—

Cause.							No. of	Still-births.
(1) Complications of	labour	•••	•••					19
(2) Ante-natal eauses		•••	•••	•••	•••		•••	19
(3) Foetal states			•••	•••	• • •	•••	•••	8
(4) Prematurity		•••	•••	•••	•••	•••	•••	7
(5) Unknown	• • •	•••	•••	•••	•••	•••		10
			Тот	AL	•••	•••	•••	63

NEO-NATAL DEATHS.

During the year 67 infants died within two months of birth. Fourteen of the deaths were ascribed to feetal states, 20 to prematurity, and the remaining 33 to post-natal causes.

The number of neo-natal deaths (i.e., within the first four weeks of life) was 53, a figure equivalent to 3.9% of live births registered.

PREMATURE BIRTHS.

All premature births are followed up, and of 55 premature infants born during 1936, 31 were alive at the end of the year.

Causes of prematuring:	Causes	of	prematurity .
------------------------	--------	----	---------------

Albuminuria					•••		6
Multiple pregnancy	У						3
Shoek	•••			•••	•••		1
Not known		•••				•••	25
Ante-partum haen	norrha	nge	•••		•••	•••	4
Other Maternal co	nditio	ns	•••		•••	•••	16
							_
	7	COTAL		•••	•••	•••	55

INFANTILE MORTALITY.

During the year there were 88 deaths of infants, compared with 90 in 1935. This figure corresponds to an infantile mortality rate of $64 \cdot 0$ per 1,000 live births registered, compared with $63 \cdot 4$ in 1935, and $56 \cdot 9$ in 1934.

Of the deaths registered, 80 were of legitimate, and eight of illegitimate ehildren. The rate of infantile mortality amongst legitimate infants was 61·6 per 1,000 legitimate births registered, and amongst illegitimate children 129·0 per 1,000 illegitimate births registered.

Of the deaths certified 53, or $57 \cdot 9\%$, occurred within the first month of life.

The more important causes of death were as follows:—

Cause.						Number of Deaths.
Promature Birth	•••	 •••	•••		•••	21
Congenital defect		 ••	•••	•••	•••	29
Pneumonia	•••	 		•••		16

St. Mary's Ward shows the highest rate of infantile mortality (157), followed by St. Paul's (95), and St. Michael's (92). Trinity exhibited the lowest rate (22).

Taking the Infantile Mortality over a period of ten years, St. Silas's shows by far the best figures, St. Mark's comes next, followed by Park. The worst wards during the same period were St. Mary's and St. Peter's.

TABLE 75

Infantile Mortality in Wards and Comparison with Density of Population.

Ward	Estimated Population middle of 1936	Persons per Acre	Rooms per person	Births	Birth Rate	Infantile Mortality	Deaths	Death Rate	Natural Incre'se or Decrease of Popul'n 1934-35	Census Popula- tion 1931
St. Stephen's .	12493	11.2	1.19	171	13 · 6	52	165	13.2	+ 6	13215
Trinity	7587	53 · 4	1.09	91	12.0	22	100	13 · 1	_ 9	8022
St. Michael's .	8120	13 · 7	1.24	87	10.7	92	135	16.6	—4 8	8580
St. John's	6160	$64 \cdot 5$	1.22	81	13 · 1	74	91	14-7	10	6520
St. Silas's	8607	$9 \cdot 2$	1.55	51	5 · 9	39	110	12.7	59	9108
St. Paul's	8445	$72 \cdot 5$	1.20	115	13 · 6	95	132	15 · 6	_17	8929
St. Peter's	5870	46 · 7	1.01	80	13 · 6	75	103	17.5	—23	6213
St. Mary's	4872	29 · 5	0.94	70	14 · 3	157	78	16.0	_ 8	5147
St. Matthew's	8085	81.0	1.11	81	10.0	37	104	12.8	—23	8561
St. Thomas'	10637	$6 \cdot 4$	1.06	112	10.5	53	150	14 · 1	_3 8	11255
Park	8561	13.9	1.09	108	$12 \cdot 6$	74	122	14 · 2	—14	9052
St. Luke's	6936	43 · 6	1.08	96	13 · 8	52	84	12.1	+12	7333
St. Mark's	9430	24 · 7	1.25	101	10 · 7	39	145	15.3	-44	9979
St. Andrew's	10197	9 · 4	1.09	117	11.4	59	145	14 · 2		10783
	116000	16.0	1.17	1361	11.7	64	1664	14 · 3	-303	122697

Comparison of Blackburn Infantile Mortality Rate with that of England and Wales from 1927—1936.

	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
Blackburn	77	80	80	83	61	66	71	57	63	64
England and Wales	69	65	74	60	66	65	64	59	57	59

TABLE 76.

INFANTILE MORTALITY IN WARDS FROM 1927 TO 1936.

Ward.			1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	Aver- ige for 10 y'rs
St. Stephen's			45	47	62	36	62	98	67	57	51	52	57
Trinity	•••	•••	153	118	96	80	76	84	56	26	19	22	73
St. Michael's			46	65	108	95	34	54	38	62	39	92	€3
St. John's			52	108	99	109	81	43	22	93	55	74	73
St. Silas's	•••	•••	41	53	63	59	40	38	41	16	104	39	49
St. Paul's	•••	•••	59	73	110	56	74	69	45	43	37	95	66
St. Peter's	•••	•••	119	127	116	103	100	122	134	45	129	75	107
St. Mary's	•••	•••	97	77	126	205	65	108	90	103	136	157	116
St. Matthew's	•••	•	41	105	39	68	72	63	63	141	58	37	68
St. Thomas's		• • •	76	77	103	128	60	18	104	48	69	53	73
Park	•••	•••	80	81	58	50	38	45	97	44	58	74	62
St. Luke's	•••	•••	147	111	44	60	56	37	82	78	60	52	72
St. Mark's	•••	•••	61	51	71	96	31	104	83	20	29	39	58
St. Andrew's	•••		68	60	56	71	61	21	62	47	96	59	60
Borough		• • •	77	80	80	83	61	66	71	56	63	64	70

TABLE 77.—DEATHS UNDER ONE YEAR, ARRANGED ACCORDING TO DAYS, WEEKS AND MONTHS. Cauches of Death. Cauches of Death. Cauches of Death. Cauches of Death. Cauches of Cartified Cartif		.JATOT	88 1 1 1 1 1 1 1 1 1	88
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TABLE 77.—DEATHS All Causes (Certified Smallpox	TA		All C Simal Si	Ne

TABLE 78.DEATH RATES UNDER ONE YEAR OF AGE.

CAUSE OF DEATH.	RATES PER 1,000 BIRTHS.												
	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936
Small-pox	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chicken-pox	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Measles	0.5	4 · 2	0.5	3.5	0 0	0 0	3 · 7	0 · 6	0.0	4 · 1	0.0	0.7	0.0
Scarlet Fever	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Whooping-cough	$2 \cdot 0$	2 · 1	3 · 4	0.0	1 · 1	1 · 2	1.2	5 · 2	3 · 8	1 · 3	0 · 6	$2 \cdot 1$	2 · 2
Diphtheria and Croup	0 · 0	0.0	0.5	0.0	0.0	0.0	0 6	0.0	0 · 0	0 · 6	0.0	0.0	0.0
Erysipelas	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 6	0 · 6	0.0	0.0	0.0
Tuberculous Meningitis	0 5	0.0	0.5	0.0	0-0	0.6	0.0	0 · 6	0 · 6	0.0	1 · 3	1 · 4	0.0
Abdominal Tuberculosis	0.5	0.5	0.5	0.0	0 5	0.0	0 · 0	0 0	0.6	0.0	0 0	0.0	0.0
Other Tuberculous Diseases	0.0	0.0	0.5	0.0	0 0	0 6	0.0	0.6	0 · 0	0 6	0.0	0.0	0.0
Meningitis (not Tuberculous).	1.0	2 · 1	2 · 2	0.5	1 · 7	1.9	0.0	1 · 3	0.0	0 6	0 · 6	0 · 0	0 · 7
Convulsions	5.0	$5 \cdot 2$	2 · 2	2 . 9	2.8	4.5	5.0	1 · 9	0.6	$2 \cdot 7$	0 6	0 · 7	0.7
Laryngitis	0.0	0.0	0.0	0.0	0 · 0	0.0	0.0	0.0	0.0	0.0	0 · 0	0.0	0.0
Bronehitis	7.0	12.0	8.6	6 · 4	10 · 3	8 · 3	3 · 7	$3 \cdot 2$	$4 \cdot 5$	$2 \cdot 7$	$2 \cdot 0$	$4 \cdot 2$	2 · 9
Pneumonia (all forms)	12.6	13 · 1	13 · 2	11.7	9 · 8	15 · 4	$12 \cdot 5$	13 · 6	7 · 1	10 • 9	2.7	11.2	11.7
(Diarrhœa	5.5	4 · 7	4.0	7.0	1 · 7	$2 \cdot 5$	3 · 7	5 · 2	1 · 2	1 · 3	4 · 8	0.7	$2 \cdot 2$
Enteritis	0.0	0 · 5	1 · 1	0.0	0.5	0.0	0 · 6	0.0	0 · 6	4 · 1	0.0	2 · 1	0.0
Gastritis	3.0	1.0	1 · 7	1 · 7	0.0	0 · 0	0.0	0 · 6	0.0	0 · 6	0 · 6	0.0	0.0
Syphilis	2.0	2 · 6	0.0	0.0	$2\cdot 3$	0.6	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Rickets	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0
Suffocation, overlying	0.0	0.0	0.0	0.5	0.5	0.6	1.8	0.0	0.6	0.0	2.0	0.7	0.0
Injury at Birth	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
Atelectasis	0.5	0.5	0.0	$2 \cdot 3$	0.0	0 • 6	1 · 2	1 · 3	0.6	1 · 3	2.0	2 · 1	5 · 1
Congenital Malformations	3 · 5	5 · 7	5 · 7	3 · 5	0.5	2.5	10 · 6	5 · 2	9 · 7	11.6	12.5	18.3	4 · 4
Premature Birth	15.6	20 · 5	23 · 5	14.7	16 · 1	20 - 6	22 · 5	13 · 6	22 · 6	15.1	17.3	12.6	5.3
Atrophy, Debility and													
Marasmus							1		7.7			- 1	
Other causes	14-1	13.6	6.3	4.7	8.6	6.4	4 · 3	4.5	5 · 1	5 · 4	2.0	1.4	1.4

OPHTHALMIA NEONATORUM.

Five cases were notified during the year, four of which were Borough cases, and one out-of-the Borough.

TABLE 79.

RESULTS OF TREATMENT.

Notified At Home. In Hospital Unimpaired Impaired Blindness Death		Cases Treate	d.	Vision	Vision	Total	
	Notified	At Home.	In Hospital				Deaths.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5	2	3	3			

Two eases were still under treatment at the end of the year.

MATERNITY AND CHILD WELFARE CENTRES.

There are six Maternity and Child Welfare Centres in the Borough, situated at Bent Street, Nova Seotia, Kendal Street, Griffin Paroehial Hall, Cornelian Street and Hozier Street. Two sessions are held each week at Hozier Street and Kendal Street.

In the following Table it will be noted that the attendances numbered 39,745, compared with 38,897 in 1935.

TABLE 80.

-	Bent Street.	Hozier Street (2 sessions weekly).	Bolton Road	Kendal Street (2 sessions weekly).	Griffin.	Cornelian Street	Total, 1936.	Total, 1935.	Total, 1934.
Infants:— New cases under 1 year	120	224	139	215	148	78	924	••	• •
No. of re-attendances	2182	3686	2467	3741	2675	1408	16159		• •
New cases over 1 year	42	39	26	40	35	22	204	••	
No. of re-attendances	3340	5536	3359	435 3	2838	2106	21532	• •	• •
Attendances of Infants	5684	9485	5991	8349	5696	3614	38819		
Consultations with Dr.	597	1272	901	1319	802	370	5261		• •
Expectant Mothers— No. of new cases	40	34	15	32	25	12	158		• -
No. of re-attendances	202	211	96	129	84	46	768	• •	• •
Total Attendances of Expectant Mothers	242	245	111	161	109	58	926		
Total Attendances	5926	9730	6102	8510	5805	3672	39745	• •	• •
Average Attendance of infants per session 1936 1935 1934	121	97	120	86	112	77	*828	\$10 	772

^{*} Total average attendance each week at all the Centres.

A doctor attends at each session, together with two Health Visitors, and assistance is given by three or four voluntary workers. To these ladies I wish to express my thanks for the enthusiastic manner in which they have performed their self-imposed duties.

Of the 1,361 live births notified during the year, 924, or $67 \cdot 9\%$, attended the Infant Consultation Centres, a decrease of $1 \cdot 5\%$ over the figure for 1935.

The percentages seen by a Doctor at each session per Clinic are as under :-

Bent Street		 	 	10.0
Hozier Street		 	 	13 · 4
Nova Scotia		 	 	15.0
Kendal Street		 	 	15.7
Griffin		 	 	14.0
Cornelian Stre	et	 	 	10 · 2

The talks by Health Visitors at the Clinics have been continued. The syllabus is as under:—

I.—Expectant Motherhood. II.—Care of the New-Born Infant. III.—The Diet of a Nursing Mother. IV.—Breast Feeding. V.—Artificial Feeding. VI.—Weaning. VII.—The Hygiene of Infancy. VIII.—Baby Clothes. IX.—The Development of the Child. X.—Feeding from 1-5 Years. XI.—Rickets. XII.—Common Ailments of Infancy.

The appended Table shows the deaths of babies who attended the Clinics during their first year, as compared with the deaths of those who never attended the Clinics.

TABLE 81.

Area	,	18	Atte a Cl	nd'd inic	Atte	endane Birth	at at	Full'. Ba	l'ime by	Births during	Dea	ths in I	nstit	utions
Area		Deaths	Yes	No	Doctor	Mid- wife	Doctor & Mid wife	Yes	No	same period.	Queens Park	Royal Infir- mary	Spring field	Reg. Mat. Home
District	I.	12	1	11		5	7	7	5	264	4	••		
• •	II	12	2	10		8	4	8	4	228	1		• •	
I	II	12	1	11		9	3	9	3	208	4	2	1	• •
	ıv	12	3	9	2	10		8	4	119	2	1		
	V	10	3	7	••	6	4	4	6	149	2	2	1	
	VI	18	2	16	1	6	11	13	5	212	5	1	4	
,, V	'II.	8		8		5	3	5	3	150	2	1		
,, VI	III.	4	1	3	!	2	2	4		31	3			
		88	13	75	3	51	34	58	30	1361	23	7	6	

DENTAL TREATMENT OF MATERNITY AND CHILD WELFARE CASES.

Mr. H. Yates, the Senior Dental Surgeon, carried out the following work in connection with Maternity and Child Welfare Cases:—

		1936	1935
Number of Sessions held	 	 75	 76
Number of Patients: Mothers	 	 195	 185
Children	 	 67	 62
Permanent Teeth Extracted	 	 270	 206
Permanent Teeth Filled	 	 37	 56
Temporary Teeth Extracted	 	 55	 67
Temporary Teeth Filled	 	 11	 18
Other Operations	 	 26	 41

ORTHOPÆDIC TREATMENT.

The arrangements in force for the care of deformity or erippling defect are as outlined in the Health Report for the year 1932.

TABLE 82.

THE WORK OF THE HEALTH VISITORS.

HOME VISITING.

	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Totals
			-						
Visits to Expectant Mothers—							!		
First Visits	47	25	9	24	23	71	61	10	270
Re-visits	116	4	8	43	7	48	42	5	273
Ineffective Visits	7	4		2	1	1	1	1	17
Infants under 1 year—			1						
First Visits	226	280	136	131	155	198	149	55	1330
Re-visits	712	625	511	554	606	767	524	233	4532
Ineffective Visits	86	140	135	152	49	28	75	77	742
Infants aged 1 year—									
Re-visits	657	463	507	626	426	618	538	206	4041
Special Visits	14	3	1	2	1	2	2	4	29
Ineffective Visits	79	83	121	28	36	8	55	70	480
Children 2—5 years	958	1161	1186	506	1111	1468	1185	560	8135
Ineffective	116	167	305	21	82	54	186	138	1069
Ophthalmia	110	10,	1		02		100	100	1000
Neonatorum—			ĺ						
		1	1		1				2
D		1	1.				•••	•••	_
Re-visits	•••			•••	•••		•••	•••	•••
Diarrhœa—	1			1					2
First Visits	1	•••		_	1		•••	•••	2
Re-visits	5	19	6	5	4	9	6	1	55
Stillbirths	$\frac{5}{25}$	48	20	15	7	30	10	13	168
Doctors' Accounts	25	+8	20	15	′	-30	10	13	108
Milk (Mothers and									
Children Order)—									
Visits	•••		•••	•••	•••	•••	•••	•••	•••
Minor Infectious	105	210	140		7.04	100	3=0	00	1150
Diseases	127	218	140	59	164	108	250	90	1156
Midwives—	0.5								0.4
Routine	95	1	•••	• • • • • • • • • • • • • • • • • • • •	•••	•••	•••	•••	95
Special	7	•••			•••	•••	•••	•••	7
Ineffective	46	•••			•••			•••	46
Puerperal Fever Visits	4	4	1	1	•••	$\frac{2}{}$	4	•••	16
Houses where deaths									
of infants occurred	6	10	8	2	•••	8	4	1	39
Miscellaneous Visits	81	21	14	12	31	56	29	1	245
TOTALS 1936	3416	3276	3108	2184	2705	3476	3121	1465	22751
1935	3479	3538	3326	2416	2842	3725	3295		22621

In August an additional Health Visitor was appointed whose time is equally apportioned between the Health and School Medical Services.

TABLE 83.

CLINIC SESSIONS ATTENDED

	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Dis't.	Totals.
Maternity and Child									
Welfare Clinics	92	116	72	101	144	116	143	17	801
Ante-Natal Clinics	24	15	8	120	15	15	18	1	216
Special V.D. Clinics				75	4				79
Other Clinics	45	39	30	54	35	39	43	7	292
Totals	161	170	110	350	198	170	204	25	1388
Total Houses visited	2853	2884	2750	1773	2441	3285	2822	1303	20111
Total Persons visited	3275	3279	3117	2195	2669	3488	3094	1453	22570

MATERNITY AND CHILD WELFARE ACT, 1918.

The following Table gives the number of families to whom assistance was rendered during 1936:—

TABLE 84.

Price.	No. on Jan. 1st, 1936.	New Cases during Year.	Cases Discontinued.	No. on Dec. 31st, 1936
Free	236	278	272	242
Quarter Price .	49	121	112	58
Half-Price	18	68	67	19
TOTAL	303	467	451	319

For former years the corresponding figures (totals) are :-

1927	 	*195	367	323	†239
1928	 	*239	363	482	†120
1929	 	*120	264	271	†113
1930	 	*113	322	265	†170
1931	 	*170	401	282	†289
1932	 ••	*289	521	439	†371
1933	 • • •	*371	524	568	†327
1934	 	*327	435	443	†319
1935	 	*319	442	458	†303
			t .	V	

^{*} Beginning of Year. † End of Year.

During the year 28,525 pounds of dried milk have been supplied to expectant and nursing mothers and young children at a cost to the Local Authority of £1,571/1/2. In 1935, 25,778 pounds were supplied at a cost of £1,605/7/4 $\frac{1}{2}$. The nett cost in 1936, therefore, decreased by £34/6/2 $\frac{1}{2}$.

In addition dinners were provided free, or at less than eost price for expectant or nursing mothers.

CARE OF ILLEGITIMATE CHILDREN.

No special provision is made by the Corporation for the eare of illegitimate children or unmarried mothers; this work is undertaken at Viewfield Hostel by the Manchester Diocesan Association for Preventive and Reseuc Work. The Health Department maintains a close co-operation with the authorities of the Hostel, and takes an active interest in the important work carried out there.

I am indebted to Miss Duekworth for the appended particulars respecting Viewfield:—

	Mothers.	Babies.
Number of Beds	13	13
Number of Cases Admitted, 1936	 16	16
Number in Hostel, Jan. 1st, 1937	 9	9
Number returned to relatives and friends	 5	5
Number of Mothers sent to situations	 2	_

At the end of the year there were six babies under one year. Three of these were on four-hourly bottle feeds, and three on four-hourly breast feeds.

The Assistant Medical Officer for Maternity and Child Welfare visits Viewfield at regular intervals for the purpose of inspection and consultation with the Viewfield staff.

INSTITUTIONAL PROVISION FOR MOTHERS & CHILDREN

Maternity beds are provided at Springfield and Queen's Park Hospital.

Special accommodation is available for infants and children at both the Royal Infirmary and Queen's Park Hospital.

NURSING HOMES REGISTRATION ACT, 1927.

On receipt of application for registration, the premises are visited by either the Medical Officer of Health or by a lady Assistant Medical Officer of Health. This visit is the occasion of a survey of the available accommodation, and advice is given as to structural or other alterations required. The number of beds to be used for the reception of eases is also decided upon. Following registration, the Homes are visited quarterly by Drs. Baird and Thomson, and at more frequent intervals by the Senior Health Visitor. All have been found satisfactory.

(a) Maternity Homes:—

At the beginning of the year there were five midwives' private Maternity Homes in Blackburn. During the year no new homes were registered. At the end of the year five labour beds and 11 lying-in beds were available in private maternity homes.

(b) Nursing Homes:—

At the end of the year there were five registered Nursing Homes in Blackburn, providing a total of thirty beds. During the year one new home was registered.

THE PRE-SCHOOL CHILD.

Causes of Death in Children from One to Five Years of Age.

				1935		1936
Pneumonia and Bronchitis	s		•••	 12	• • •	11
Infectious Diseases (Non-		 21		2		
Tuberculosis (all forms)		•••		 	•••	1
Digestive System Diseases	S	•••	•••	 3	•••	1
All other causes	•••	•••	•••	 9	•••	8
						_
	•	TOTALS	•••	 45	•••	23
				_		-

There are now 18 Nursery Classes in Blackburn, with approximate aeeommodation for 600 ehildren under the age of five years. The work earried out at these classes has been fully described in the School Medical Report.

INFANT LIFE PROTECTION

The appended Table gives particulars of infants nursed out for reward within the Borough:—

(a)	Number of Nursed Out Children, December, 1	935	•••	13
(b)	Number of New Cases during 1936		•••	4
(c)	Number who left the Borough during 1936			2
(d)	Transferred to Child's Mother—			
	Out-of-Borough	•••	1	
	In Borough		3	4
(e)	Transferred to Other Districts (in Borough)	•••	•••	3
(<i>f</i>)	Number at present in Borough		•••	8
(g)	Number found to be:—			
	(a) Satisfactory	•••	•••	8
	(b) Unsatisfactory	•••	•••	0

Inspection duties were undertaken by the Health Visiting Staff, who visit each case at least once in every six weeks. All the children have been found to be well cared for.

TABLE 85.

FEEDING OF INFANTS UP TO SIX MONTHS OF AGE-PERIOD FROM JULY 1ST, 1935, TO JUNE 30TH, 1936.

*pe	Not E		:	:	:	28.78
	ohifrA lerifne		14.9	28.5	31.81	25.75
Ш	6th m'nth		0.77	1.095 1.095 1.095 1.095	2.57	
Breast Feeding Jointly with Artificial Up to End of	1st 2nd 3rd 4th 5th 1st 2nd 3rd 4th 5th 6th minth		1.46 1.35 0.077 0.77	1.095	2.27	:
G JOIN'	4th m'nth		1.35	1.095	60.6	:
FEEDING	3rd m'nth		1.46		2.27	:
LEAST I	2nd m'nth		2.316 2.5	2.85	2.27	:
Bi	lst m'nth		2.316	1.9	4.54	4 · 54
OH OH	5th m'nth		2	.095	:	:
Breast Feeding Alone Up to End of	4th m'nth		4.92	7.61	4.54	7.57
	3rd m'nth		6.85	4.76	2.27	1.51
FEEDING AI END OF	2nd m'nth		5.0	10.47 14.7	6.81 13.63	3.03 10.6 1.51
REAST]	lst m'nth		8.4	10.47		
Ē	3 weeks		5. S	9.9	60.6	15.15
•1	Breast entirely.		82.81 40.25	25.71	60.6	3.03
nerbin	Percen: 1251 cl investig		82.81	8.38	3.51	5.27
	of 6 months		Satisfactory	Fairly Satisfactory.	Unsatisfactory	Dead

PART VIII.

Miscellaneous.

TABLE 86.

ULTRA-VIOLET LIGHT CLINIC.

Diagnosis	No. 6	of Cases Treated	ated	No. of	No. of Cases Discharged		No. of cases att'ding at end of year	cases ng at year	Total number of all exposures given to cases attending	Total number of all exposures given to cases attending
	Total	Male	Female	Cured	Improved	No Change	M.	균.	Carbon Arc Merc. Vap.	Merc. Vap.
				,			((
Debility	133 90	<u>ස</u> ද	11+ 14-	12	76 5.	တ ဗ	:O 4	30	1156 526	0 1 8
Anæmia	45	83 83 83 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86	17	13	13	4	· 00	. →	1254	32
Lung Conditions (Non-Tubercular)	22	ŭ	17	5	4	က	Ç.	9	581	54
Tubercular Conditions	20	11	G.	ଦା	П	7	οı:	•	83	1107
Cervical Adenitis	11	∞ ;	က္	•	₩;	• (ا ق	्। हा	125	93
Malnutrition Other Conditions	105 63	46 33	30	" []	11	02 11	9	× ×	1580 979	1349
TOTAL	428	165	263	47	163	58	53	85	6284	3500
	345	124	221	18	154	48	46	79	2808	1876
Total Corporation Hospital Clinic	83	41	42	29	6	10	7	9	3476	1624
GRAND TOTAL	428	165	263	47	163	58	53	85	6284	3500
SECTIONS:— Tuberculosis Maternity & Child Welfare School Medical	14 252 157 5	8 69 84 4	6 183 73	1 6 40 	125 34 4	35 17	.55 2.7 3.7	55 29 1	80 2392 3760 52	1112 868 1520
GRAND TOTAL	428	165	263	47	163	58	53	85	6284	3500

Table 86 is a composite Table which contains particulars of cases treated at both the Health Department and Hospital Clinics.

BACTERIOLOGICAL AND PATHOLOGICAL EXAMINATIONS.

Facilities are available for the examination of pathological and bacteriological specimens at the Corporation Hospital, at the Royal Infirmary, and at the Public Health Laboratories at Manchester and Liverpool.

The appended Table gives particulars of examinations earried out during 1936.

For particulars of work carried out at the Corporation Hospita Laboratory see Table 56.

TABLE 87.

Blackburn & East Lancashire Royal Infirm	nary.	:				
Specimens examined for Spirochætes	•••	•••			•••	10
" " Gonoeocci …	•••	•••	•••	•••	•••	2353
Manchester University:—						
Specimens examined for Spirochætes				•••	•••	ı
" " Gonococci	• • •			•••		56
,, ,, Wasserman Test	t		••			1231
Widal Tests for Typhoid	• • •		•••	•••	•••	25
Faeces for Typhoid				•••		98
Swabs for Haemolylic Streptococci		•••	• • •			34
Other Specimens	•••	•••	•••	•••	•••	13
Liverpool University:—						
Swabs for Hæmolytic Streptococci			•••		•••	97

LOCAL GOVERNMENT ACT, 1929.

No alterations or developments have taken place during the year.

The work of both Public Assistance and Health Committees is closely co-ordinated.

MENTAL DEFECTIVES.

The Local Authority does not provide institutional accommodation for mental defectives, nor has there been any change in the arrangements as described in the Report for 1933.

NURSING IN THE HOME.

Domiciliary nursing of eases of Measles, Whooping Cough, Diarrhœa. Puerperal Fever, Ophthalmia Neonatorum, Influenzal Pneumonia, and Tuberculosis is undertaken by the District Nursing Association.

The Corporation pay the Association an annual retaining fee of £35 for these services, with an additional payment of 8d. per visit.

The appended Table gives particulars of the work carried out by the District Nursing Association in this respect during 1936:—

TABLE 88.

Home Nursing by District Nurses.

Disease	On books Jan. 1st 1936	New Cases	Cured	Died	Hospital	Remaining end of 1936	Visits
Tuberculosis		20	4	11	3	2	322
Pneumonia	. 4	75	50	18	8	3	1439
Puerperal Fever and Pyrexia		3	2	1	••	• •	49
Ophthalmia Neonatorum .		1	••		1	••	8
TOTAL	. 4	99	56	30	12	5	1818

HEALTH EDUCATION.

During the year lectures (in addition to those given to school-children and their parents and those given by the Health Visitors on Mothereraft) were given by members of your staff to various religious and social organisations in the Borough.

PREVENTION OF BLINDNESS.

Although no formal scheme exists for this purpose the Council, as part of its general health and school medical services, provides adequate facilities for the prevention of blindness.

(1) Many cases of blindness are venereal in origin.

Treatment of these diseases is undertaken both at the Royal Infirmary and at the Health Department. The latter Clinic is part of the Maternity and Child Welfare Scheme and covers marital and innocent cases, both infantile and adult.

(2) A consultant oculist service is available for school and pre-school children, and for the treatment of ocular defects which arise at the Isolation Hospital during the course of infectious disease.

All but the most trivial defects are referred to the consultant oculist for opinion and treatment.

- (3) Beds are provided at the Isolation Hospital for the reception of cases of ophthalmia neonatorum.
- (4) The Education Authority has provided a class for partially-sighted at Roe Lee School. After leaving school these cases are followed up by the Home Visitors.
- (5) Medical practitioners have been notified of the consultant services provided by the Blind Persons Act Committee, and have been asked to notify doubtful cases to the Health Department.

WELFARE OF THE BLIND.

THE BLIND PERSONS ACT, 1920, SEC. 2, SUB-SECTION 1.

The Local Authority has made provision for the welfare of the blind through the Blackburn Workshops for the Blind and the Blackburn and Darwen Home Visiting Society. The Workshops are now administered by the Corporation.

In 1936 the Blind Persons Scheme cost the Corporation £4,439, allotted as under:—

Workshops for the Blind	• • •		•••	• • •	£1,345.
Visiting Society	•••	•••			£434.
Other Blind Agencies	•••			•••	£255.
Grants to unemployable	necess	sitous	persons		£2,325.
Professional Charges	•••	•••	•••		£75.
Sundry expenses	•••	• • •	•••		£5.

In addition to the above grants the Workshops received £600 and the Visiting Society £180 from the Joint Finance Committee for the Blind. This Committee is composed of representatives from the Local Authorities whose districts are served by the Workshops and Visiting Society. Its function is to organise and co-ordinate the raising of voluntary funds for the Blind.

The Blind Register contains particulars of 274 blind persons resident in Blackburn.

TABLE 89.

METEOROLOGY, 1936.

Corporation Hospital Station, Height 560 feet.	
Hospital Station, Height	
Hospital Station,	260
Hospital Station,	Height
Hospital	_
	St
	tal
Corporation	Hospi
Corpo	ration
	Corpo

Totals	hrs. min. hrs. min. hrs. min. 41 5 24 45 1029-37	:	:	41.535	226	1	ŀ	1	1	1	I	ł	I	1	1
Dec.	hrs. min. 24 45	0 48	hrs. min. 5 0	4.37	50	40.0	40.1	43.2	55.0	23.0	49.5	17.0	30.427	28.633	29.273
Nov.	hrs. min. 41 5	1 22	hrs. min. 5 20	5.18	18	9.04	43.1	48.1	52.0	23.0	6-5-9	<u>20 · 0</u>	30 - 350	28.670	29 177
Oct.		5 49	hrs. min. 9 0	4.17	20	45.8	49.6	52.7	61.0	24.0	82.0	96.0	$30 \cdot 218$	29.281	29.407
Sept.	ars. min. 18 84 30	5 49	ars. min. 1	3.84	15	53.6	57.5	56.2	0.69	37.0	8.99	29.0	30 · 191	29.099	29.338
Aug.	hrs. min. h	3 25	ars. min. 1	2.665	17	55.2	58.4	55.7	76.5	45.0	68.2	39.0	30 · 227	29.375	29.372
July	ars. min. 1	2 49	hrs. min. 11 40	4.82	27	54.8	58.0	55.3	0.07	45.0	0.89	37.0	30.007	29.193	29.029
June	hrs. min. 126 0	4 12	hrs. min. 13 5	3.91	20	53.2	52.2	50 · 3	83.0	38.0	73.6	32.0	30.014	29.319	29.329
May	hrs. min. 197 5	6 21	hrs. min. 12 30	08.0	15	47.3	6.09	46.1	74.0	34.0	49.0	98.0	30 - 177	29.617	29 · 432
April	hrs. min 152 40	5	hrs. min. 12 30	1.17	16	38.3	42.7	42.6	0.99	27.0	35.7	23.0	30.444	29.468	29.347
Mar.	hrs. min. hrs. m	1 0	hrs. min. hrs. m	2.91	20	40.6	40.1	39.5	62.0	27.0	37.6	26.0	30 · 139	29.385	29.184
Feb.	hrs. min. 68 15	2 21	hrs. min. 7 40	5.64	17	33.3	38.3	38.8	51.0	21.0	31.4	19.0	30.329	28.817	29.410
Jan.	hrs. min. 19 10	0 13	hrs. min. 5 0	5.06	24	36.4	37.0	45.0	54.0	23.0	34 · 1	18.0	30.085	28.756	28.846
	Amount of Bright Sunshine	Average per day	Maximum amount in one day.	Total Rainfall (in inches)	No. of days on which rain fell.	Av. Temp. at 9 a.m. (Fahr.)	Temp. of earth at depth of 1ft.	Temp. of earth at depth of 4ft.	Highest Temp. in Shade	Lowest Temp. in Shade	Av. Temp. Sun (black bulb)	Lowest Temp. on Grass	Highest cor. reading of barom.	Lowest cor. reading of barom.	Mean reading of barometor

APPENDIX.

JEFFREY RAMSAY, M.D., M.R.C.P.,

SENIOR HONORARY PHYSICIAN,
BLACKBURN & EAST LANCASHIRE ROYAL INFIRMARY,

AND

V. T. THIERENS, M.B., CH.B., D.P.H.

In the Annual Report for 1935 reference was made to an investigation which was being carried out with reference to certain bacteriological and bio-chemical aspects of the blood during pregnancy.

One hundred specimens have been examined and the results, which are at present being analysed, will be the subject of a later report.

